SEQUENCE LISTING

	THE JOHNS HOPKINS UNIVERSITY FEINBERG, Andrew P.				
<120>	METHODS FOR IDENTIFYING CANCER RISK				
<130>	JHU1900-1				
	US 10/336,552 2003-01-03				
<150>	US 60/391,810				
<151>	2002-06-27				
<160>	37				
<170>	PatentIn version 3.1				
<210>	1				
<211>					
<212>	DNA Homo sapiens				
(213)	nono saprens				
<400>					
tctgttc	gcac cctggaccca gactcctcaa tccacccagg gtggtgtctg tggggagggg	60			
gttcact	ttcc ccaggaagca cagccacgcc gtccctcact ggcctcgtca agcagagctg	120			
tgtgtco	cagt ggcttttgct ggggccccct ccttatctcc ttccaaggtg ggggtgtttg	180			
gaggtgg	gagg aggettteat atteegtgee atgaeeeete aaggegggee attegtgtge	240			
accctco	cace cecagt	256			
<210><211><211><212><213>	2 20 DNA Artificial Sequence				
<220>					
<223>	PCR primer				
<400>	2				
	gatg ggtttttgtt	20			
<210>	3				
<211>	21				
<212> <213>					
~2137	metricial sequence				
<220>					
<223>	PCR primer				
<400>	3				
ctactct	tccc aacctcccta a	21			

<210> 4

<211><212><213>	20 DNA	ficial	sem	ience				
<220>	•••	110101	Dege					
<223>	PCR	primer						
<400>	4 aata	gagggt	gtat					20
<210><211><212><213>	5 21 DNA Arti	ificial	sequ	ience				
<220> <223>	PCR	primer						
<400> tctatta	5 acac	cctaaa	ccca	a				21
<210><211><211><212><213>	6 6014 DNA Homo	1 o sapiem	ns					
<400> gcaacag	6 gtga	tgtaat	ccta	ggagcaattt	gaggaggtta	aaaatctttc	agcctccaga	60
tgtgtga	actc	catgact	tcct	aaaccataat	ttctaatctg	tggctaattt	gttagtcctg	120
aaagtct	tagt	ccccag	gcag	gaagagggtc	tgtcctggga	aagggctgtt	attgtctttg	180
tttcaaa	agat	aaacta	taaa	ctaagttctt	cccaaagtta	gtccagcctg	cacccagaaa	240
tgaataa	agaa	ggcaag	acag	agttggttac	gtcagatctc	tttcattgtc	ataattttct	300
gttatat	tatt	tttttt	tttt	tgagacagag	tttcgctctt	atcatccagg	ctggagtcca	360
atggct	cgat	cttggc	tcac	tgcaacctcc	acctccggag	ttccagtgat	tctcctgcct	420
cagcct	ccca	agtage	tggg	attacaggcg	cccaccacca	tgcccagcta	atttttgtat	480
ttttagt	taga	gatggg	attt	cgtcaggttg	gccaggttgg	tcttgaactc	ctgacctcag	540
gtgatco	cacc	cacctc	ggcc	tcccaaactg	ctgggattac	aggcatgagc	caccatcgcc	600
ggccgat	tttt	ctgtaa	taat	ttttgcagag	gcggtttcac	caggagaacc	aagcattaat	660
gcgctgt	tggc	tgatgt	gtag	tagagcggca	tttcccaatg	ggagaaccct	ggggctgtct	720
aggagc	ccat	gcatgg	ctgg	gagcctaatc	ccagggacac	caccgatgac	agctcccata	780
gcacgta	agga	cagtgg	atac	ttggaggcaa	agagaaatct	ctgttctgca	gtggtcatga	840
cttggad	cccc	aaagaa	cttg	ageccaaggt	ccagagggag	accctcccaa	caaggcctcc	900
agcagga	aaca	gggatc	ataa	gageetgeea	agcacagcgc	acaggtattt	ctggaggctt	960

cccattcagt	cttggatgcc	agcctcacca	agggcggccc	atcttgctga	cctcaccaag	1020
ggaggcccgt	ctcactgccc	tgatggcgca	gaatcggctg	tacgtgtgga	atcagaagtg	1080
geegegegge	ggcagtgcag	gctcacacat	cacagcccga	gcacgcctgg	ctggggttca	1140
cccacagaaa	cgtcccaggt	ctcccaggcc	aggtgccgca	ttggttcccg	agggttgtca	1200
gagatagaca	ctcatgcgac	taacatcggg	ctatgtgttt	gattcacccc	agggtgcatt	1260
gttgaaggtt	ggggagattg	gaggagatgc	ttgggggaca	atgaggtgtc	ccagttcctt	1320
ggatgatagg	gatctcggcc	taagcgtgag	acccctccta	cagggtctct	ggcaggcaca	1380
gagcctgggg	gctcttgcat	agcacatgtg	tatttctgga	ggcttcccct	tcggtctcac	1440
cgccccgatg	gtgcagaatc	ggttgtagtt	gtggaatcgg	aagtggccgc	gcggcggcag	1500
tgcaggctcc	cacatcacag	ctcaagcccg	ccccagctga	ggttcacccg	cggaaacgtc	1560
ccgggtcacg	caagctaggt	gccgcaaggt	tcacgggggt	agtgagggat	agaacactca	1620
tgggagccac	attgggctac	gtgtctgatt	caccccaggg	tgcactattg	agggttgggg	1680
agatgagata	ctttggtgac	aatgaggtgt	ccccattctt	tggatgatgg	ggatctcggc	1740
ctcagcgtga	ggcccctccc	acagggtctc	tggcaggcac	agaaactggg	ggctcttgcg	1800
tagcacatgg	gtatttgtgg	acgetteece	ttctgtctca	ccacccggat	ggcacagaat	1860
cggttgtaag	tgtggactca	aaagtggccg	cgcggcggca	gtgcaggctc	acacatcaca	1920
gcccaagccc	tccctggatg	gggttcgccc	gcggaaacgt	cctgggtcac	ccaagccagg	1980
tgccgcaggg	ttctcggagg	tcttctggga	ataggacgct	catgggagcc	acaccacgtc	2040
ttcgtatcgg	gccatatcca	cggccgcgtg	gccccaggtc	acactctgag	ggcttcagtg	2100
tcatggcctg	ggactcaagt	cacgcctacc	cgcgtgatga	gcacagcaaa	ttccaacaaa	2160
agcttatact	ttccacatcc	atcccagagc	acagatccga	ctaaggacag	ccccaaatc	2220
ccgagccttt	ttctgaactg	acaattgcct	ccccagtgaa	cactctgagc	ttgtcaatct	2280
taagtggcca	gacattaaca	ttcccattca	gtgcaggttt	gagatgctaa	tttaggagct	2340
tgagatgcta	aagagctggg	agtgccactg	ctgctttatt	ctggggtcta	ggatccttgt	2400
gttggctgag	ataatctgct	aatgtgggtg	cagcagacat	cccgcggttt	gtggaatcga	2460
taaaggatgg	ggatcaatgg	tgtttgtgca	ctgtgcggtc	tgtgcccaat	tgcctgcctt	2520
gtgctgtgga	atctgtacac	ctggccaaca	tgtgcttgtg	tgagcctgac	agtgcatttt	2580
ccagagcctc	acctcggctc	tgccctggag	gctctgtgct	gctggaatca	gactcaagga	2640
cctcatcaga	ggaccatggc	cccgtatcac	ctgggtcagg	cactgaagct	gggacaggag	2700
agcagagact	tccaaaatga	gggatccctg	tgttctgagg	tgatcatgac	tgggacccaa	2760
ggactcaagc	gcatgctcca	gagggaatcg	tttcccacaa	ggcctttggc	aggaacaggg	2820

2880 atcctgggag cctgccaagc agagcgcaca gtgttcctgg agtctcgctg cccagatgcc acggaatcag ttgaaggtat ggaaacacag gtggccacgt ggtagcaggg caggctcagg 2940 cgtcatagcc cgagcccggc tacctgtggt ttgcctgcag aaacatcccg ggtcaacagg 3000 ccaggcaccg cattggttcg cgagggtcat cgggggtagg accettgtac gagccacatc 3060 gggctacgtg cctgattcac cccagggtgc actgttgaag gttggggaga tgagaggaga 3120 tacttggggg acagtgaagt gtccccattc tttggatgat ggggatctcg gcctcagcgt 3180 gagacccctc ccacagggtc tctggcaggc tcaagagccc aggggctctt gcatagcaca 3240 3300 tgaatatttc tggaggettc ceetteagte teaceaceeg gatggtgeag aattggttgt 3360 agetgtggaa teggaagtgg eegegtggeg geagtgeagg eteacacate acageeegag cccaccccag ctggggttcg cccgcggaaa cgtcccgggt cccgcaagcc aggcgccgca 3420 3480 gggttcacgg gggtcatcag ggataggaca ttcatgggag ccacatcggg ctatgtgtct gattcacccc agggtgcact attgagggtt gggaagatga gaggagatgc ttgggggaca 3540 atgaagtgtc cccattcttt ggatgatggg gatcttggcc tcagggtgag atccttcttg 3600 3660 cagggtetat ggcaggcaca gagcccgggg getettgcat agcacatgtg tatttetgga 3720 ggetteeeet teagteteae egeeeggatg geaeggaatt ggttgtagtt gtggaategg 3780 aggtggctgc gcggcggcag tgcaggctca cacatcacag cccgagcccg ccccagctgg ggttcgcccg tggaaacatc ccaggtcatc caagccgggc gccacagggt tcacaggggt 3840 cgtgaggtat aggacactca tgggagccat atcgggctac gtgtctgatt caccccaggg 3900 3960 tgcactgttg aaggttgggg agatgggagg agatactagg ggaacaatga ggtgtcccag ttccatggat gatggggatc tcggccctag tgtgaaaccc ttctcgcagg gtctctggca 4020 ggcacagagc ccgggggctc ttgcatagca catgggtatt tctggaggct tctccttcgg 4080 teteacegee tggatggeae ggaattggtt gtagttgtgg aateggaagt ggeegegegg 4140 cggcagtgca ggctcacaca tcacagcccg agcccgcccc aactggggtt cgcccgtgga 4200 4260 aacgtcccgg gtcacccaag ccacgcgtcg cagggttcac gggggtcatc tgggaatagg acacteatag gageegeace agatetteag gtegggeatt atecacagee eegtggeece 4320 4380 gggtcacact ccgagggctt cagtgtcatg gcctgggact caagtcacgc ctacttatgt gatgatcaca gtgtgttcca ccaaaatctt acattttcca catctatccc agagcacagc 4440 4500 tecgaetecg tetaaggaea geececaaat ceceageett ttaetgaact gaeaattgee tecceagtga acaetetgat etecteagee etaagtggee agaeattaae atteteatte 4560 aatgcaggtt tgaggtgcta attcaggagc ttaagatgct aaagagctgg gagcgccact 4620

4680 gctgctttat tctctggtcc aggatccttg tgttgctgga gataatccat tatcgtgggt 4740 gcagcagaca ccctgcggct tgtggactcg gtacggggtg gggatcctga tggggttagg 4800 atgttcgatg gctcgggtgt gctccacgct cagggatcat cacgtccggc cggcggtagt 4860 tggcacgtgg agaggtgaat ttgcccacag gtgttccccg tgcctgcgca ttgctggcag cacgacegga teetgtgeta geceeteeca caatgeetgg ageaggageg aggggeetgg 4920 4980 ggagccgcct tgcctggagc atttgtattt ccggagtatt tcctgagtct ccccttgggt 5040 cttgggtgct gtccccagtg agcccatctc ccagcgatgg cacagaatcg gttgtggctg tggagacgga aatggccgag aggcggcagt ggtgactcac atcacagtct gaaggtgacc 5100 caaggctgga ctccactttt agcaaaatgt gggggtctgc cttggtctcc taacttgggg 5160 gtccactcat ggaaaagcct gagaattttc atgccatgga aattccccca tgtcgtgggg 5220 ttcacgcacg acaaagcccg gcggtcagtg ctcagcaggc aagcactcag ccctttccgg 5280 5340 tggggccatg ggaacagagg gtttgccgaa ggcgcggcca gcccttccac atcccagagg 5400 geetgetgeg tgattggace egtgaactet gggteeettg geeetggtge teeeetteae 5460 ggctttgaca ctcgagactt gaggtgaacc ccagggactg cagggcccca acaaccctca ccaaaggcca aggtggtgac cgacggaccc acagcggggt ggctggggga gtcgaaactc 5520 gccagtetee aetecaetee caacegtggt gecceaegeg ggcctgggag agtetgtgag 5580 geogeocace gettgteagt agagtgegee egegageegt aageacagee eggeaacatg 5640 5700 eggtetteag acaggaaagt ggeegegaat gggaeegggg tgeecagegg etgtggggae 5760 tetgteetge ggaaacegeg gtgacgagea caageteggt caactggatg ggaateggee 5820 tggggggctg gcaccgcgcc caccaggggg tttgcggcac ttccctctgc ccctcagcac cccaccccta ctctccagga acgtgagttc tgagccgtga tggtggcagg aaggggccct 5880 ctgtgccatc cgagtcccca gggacccgca gctggccccc agccatgtgc aaagtatgtg 5940 cagggcgctg gcaggcaggg agcagcaggc atggtgtccc ctgaggggag acagtggtct 6000 6014 gggagggaga agtc

<210> 7

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 7

atcttgctga cctcaccaag g

<210> <211> <212>		
<213>	Artificial sequence	
<220> <223>	PCR primer	
<400> cgatacg	8 gaag acgtggtgtg g	21
<210><211><211><212><213>	22	
<220> <223>	PCR primer	
<400> ccgacta	9 aagg acagcccca aa	22
<212>	22	
<220> <223>	PCR primer	
<400> tggaagt	10 tete tgeteteetg te	22
<210><211><212><212><213>		
<220> <223>	PCR primer	
<400> acagtgi	11 ttcc tggagtetcg ct	22
<210><211><211><212><213>		
<220> <223>	PCR primer	
<400> cacttce	12 cgat tccacagcta ca	22

<210> 13

<211><212><213>		
<220>	PCR primer	
	13	
	tctc tggcaggctc aa	22
<210><211><211><212>	22	
<220>	PCR primer	
<400> atgagt	14 gtcc tattcccaga tg	22
<210><211><212><213>	21	
<220> <223>	PCR primer	
<400> aactgg	15 ggtt cgcccgtgga a	21
<210><211><211><212><213>	21	
<220> <223>	PCR primer	
<400> caaatt	16 cace tetecaegtg e	21
<210><211><211><212><213>		
<220> <223>	PCR primer	
<400> gatcct	17 gatg gggttaggat gt	22
<210><211>		

<212>	DNA	
<213>	Artificial sequence	
	-	
<220>		
	PCR primer	
\225/	Tele primer	
<400>	18	
	tcca tggcatgaaa at	22
ggaact	cica tygicatyada at	22
<210>	10	
<211>		
<212>		
<213>	Artificial sequence	
<220>		
<223>	PCR primer	
<400>	19	
ggtctg	geett ggteteetaa et	22
<210>	20	
<211>	22	
<212>	DNA	
	Artificial sequence	
<220>	•	
	PCR primer	
	F	
<400>	20	
	ettte etgtetgaag ac	22
55.		
	•	
<210>	21	
<211>		
<212>		
	Artificial sequence	
12137	interretar poquence	
<220>		
	PCR primer	
~4433	ICK PIIMCI	
<400>	21	
		22
cagtet	ccac tccactccca ac	22
010	22	
<210>		
<211>		
<212>		
<213>	Artificial sequence	
<220>		
<223>	PCR primer	
<400>	22	
	ctccc tcccagacca ct	22
<210>	23	
<212>		

<213>	Artificial sequence	
<220> <223>	Primer sequence	
<400>	23	
gagttt	gggg gtttttgtat agtat	25
<210> <211>		
<211>		
	Artificial sequence	
<220>		
	Primer sequence	
<400>	24	
cttaaa	tccc aaaccataac acta	24
<210>		
<211>		
	Artificial sequence	
<220>		
	Primer sequence	
<400>	25	
gtatat	gggt atttttgga ggt	23
<210>		
<211> <212>		
	Artificial sequence	
<220>		
	Primer sequence	
<400>	26	
	cact aaaaccctca a	21
<210>	27	
<211>	24	
<212> <213>		
	Altificial sequence	
<220> <223>	Primer sequence	
<400>	27 gttt atttatgtat gaag	24
yyyaat	geet acceatytat gaag	27
<210>	28	
<211>	20	
<212>		
<213>	Artificial sequence	

<220> <223>	Primer sequence	
<400>	28 cctc ctccacctcc	20
210		
<210> <211>		
<212>		
	Artificial sequence	
<220>	Primer sequence	
\223 >	Filmer sequence	
<400>	29	
taattt	attt agggtggtgt t	21
<210>	30	
<211>	20	
<212>		
<213>	Artificial sequence	
<220>		
	Primer sequence	
<400>		0.0
tccaaa	cacc cccaccttaa	20
<210>		
<211>		
<212>		
<213>	Artificial sequence	
<220>		
<223>	Primer sequence	
.400.	23	
<400>	gtat ttttggaggt ttttta	26
geacag	3000 0000330330 000000	
<210>		
<211> <212>		
<213>		
	•	
<220>		
<223>	Primer sequence	
<400>	32	
	ataa atcaaacaca taaccc	26
<210>	33	
<210 <i>></i>		
<212>	DNA	
<213>	Artificial sequence	

<220> <223>	Prin	mer sequence	e				
<400> gaggttt	33 ttt	attttagttt	tgg				23
<210><211><211><212><213>	34 22 DNA Arti	ificial sequ	uence				
<220> <223>	Prin	ner sequence	e				
<400> actataa	34 atat	ataaacctac	ac				22
<210><211><211><212><213>	35 4992 DNA Homo	2 o sapiens					
<400> ggatcct	35 :ggt	ttctgaagga	ggggaagaac	ttctgctgct	ggagggtgca	ggaagcctcc	60
tgagago	cage	ctcaacttca	ggggatgggg	tgtgcaggaa	aggccattgt	ggagagggtt	120
ctccttt	agg	gctgcacaaa	gccactgagg	cttttgcaag	gaaaataggt	tttccttgtc	180
taattca	acca	agcaaaatgg	gaggggtagg	ggaggagggc	taggccgctc	ttcccagcgg	240
gaacaca	acag	ctgtcttcac	aagtgtgaaa	ggaagagtct	ttctgtgtga	aaagtttcct	300
cccgttc	gcat	ccccatccc	attcccagag	acaaacagga	gactttgcag	aggagccagg	360
ggcccga	agat	tctggcgcag	agattttatt	tatacatata	tacaccattt	tacaggtaaa	420
gcttcct	tcc	ctcctgcctc	cctatgcctg	ctgaccacca	gcaagaaatt	ggacaggaga	480
ctgagga	agaa	acgccgggag	aggcaacaac	cgccctccat	gtccccccta	ggtttagctt	540
ctctcct	cct	gatggcgcac	ctggtccccc	ttgctgctct	cccagcctcc	ctggcacaga	600
gaggcad	ccct	ggggccaagg	cagtttccct	gggaatgctc	attcatgcat	gaagtttttc	660
tctgtt	gcac	cctggaccca	gactcctcaa	tccacccagg	gtggtgtctg	tggggagggg	720
gttcact	tcc	ccaggaagca	cagccacgcc	gtccctcact	ggcctcgtca	agcagagctg	780
tgtgtc	cagt	ggcttttgct	ggggccccct	ccttatctcc	ttccaaggtg	ggggtgtttg	840
gaggtgg	gagg	aggctttcat	attccgtgcc	atgacccctc	aaggcgggcc	attcgtgtgc	900
accctco	cacc	cccagtgcca	ggcagaagcc	catcctcacc	caggaacagg	gcagcctgtc	960
caacaga	aagg	gtctcggcct	ctccatcagc	accgggaagc	cctttctagg	caaacttctc	1020
accactt	cett	ccctccctta	tactttgaaa	gaggagete	taggcagggg	aggggtaga	1080

gggggaagcc	gctgcccaga	tcctgacaag	gtgacctgaa	ggaacccggg	gagggggatg	1140
ggacagggct	caggcttggg	gtgtatgggg	aggggggctt	tgcttttaaa	agaggtcatc	1200
tcagcaatat	ctttttgttt	ttccccaggg	gccgaagagt	caccaccgag	cttgtgtggg	1260
aggaggtgga	ttccagcccc	cagccccagg	gctctgaatc	gctgccagct	cagccccctg	1320
cccagcctgc	cccacagcct	gagccccagc	aggccagaga	gcccagtcct	gaggtgagct	1380
gctgtggcct	gtggcccagg	cgaccccagc	gctcccagaa	ctgaggctgg	cagccagccc	1440
cagcctcagc	cccaactgcg	aggcagagag	gtgagtgtct	caggcaccct	gaggcctggc	1500
agagaggcc	acaggctctg	cgcgggagtc	ttcgaactgg	gatctccccc	ttctgcaagc	1560
agctttggct	cagagaggct	ggcgtggatt	cagtcacaca	gctgggatct	ggagttccgt	1620
ggttggctcc	aggtgcttcc	gtctaggggc	cagagcaggt	gtgggcagag	caggttcccc	1680
gcagtctcca	cggcaccgag	gtcctggcag	gggagctcct	gggagacgaa	agagggcaaa	1740
gaaggggaga	ggggcaggga	gagagcgggc	agccaaaggg	gagaagatgg	ggggcagaaa	1800
gtgggtagag	agggaaaaag	ggaaaatatc	attggggaag	aacctaaaaa	cccaaggaaa	1860
gctgggctct	gctgggggct	gtgagacccc	cgggttctcc	ccgccccagg	ctgctggcca	1920
tggggtcttg	caccaatggc	ctgacctttc	tgtcggtctg	tatttatcaa	agtgggtgac	1980
agtctcaggc	ctcctggctg	ttcagaattg	aggtaataac	cagaggcctt	ctgagcaaag	2040
ggcctaaggg	gctccggcgt	caggatccag	caggtgactc	ttcaggctga	tttgcccatc	2100
ccagatagaa	gccgggagtg	ttctttcaaa	ggtgtcttta	ccttagacac	tcaataaaat	2160
ggtaacacag	tggcgccgcc	tcagtccttt	ggagtgtgca	ccgtctgaac	ccctctccca	2220
gggccctctc	ccaagcaccc	caacctggac	ccatatcccc	cacgtacttt	tggctttggg	2280
cagattgagc	agccttgggg	tggtctgtgc	tgtctggtgt	ggagggttgc	agttcgggtc	2340
cttagtccta	cttcccaggc	cggccgggct	gacgccagcg	agtgtgtcct	tccccagcga	2400
ggggagtgag	cgcaaggtca	gcgcctcgtc	tgeggegeee	tgcagggggt	gacggagggg	2460
cgctctgagg	acccttggag	aaaggagctg	ggtttgtaaa	atgctgggct	tggtcccacg	2520
gacggcggag	cggtgagctc	agagccagag	ctggggagga	aatgggaatg	agaaaggccc	2580
acttcagggc	tggtgagcga	ggggatgggg	agcagccaca	ggccgaggct	ggggcatggg	2640
ccaggctcca	tggggtgagt	ctgagtcctt	gaggggatgt	tcatcctctg	tggaatgtgg	2700
gtttgccagt	ggagaggaga	ccagcgttgc	cctggtgagg	tgctggttca	gggctggggg	2760
gcggacgctg	cttggggcta	aagttcctgc	cggccaagct	ctgggtggga	ggagaccctg	2820
gcccctccc	aacacccttg	gactgctggc	gggacccttc	ctacctccgg	gggctggaag	2880
tagtggggga	ggagccagtc	ttgaggaaga	accccgatgc	tggtcttgac	tagaggggag	2940

ccggtgtgct	tttcgagcct	cagggtgacc	cgcgtctgcc	ccagcctcca	gcctgccctg	3000
gtcacttctg	actaaataag	gagagcactc	agcaggcagc	cccacgaggg	agggggaaca	3060
tgtgtgcacc	cccactcccc	cacctgctcc	tccctcccta	cagggccact	acaccctgct	3120
gtgggcaccc	caaggtgacc	ctcagccttc	ttcctacctt	aaaaagtcca	ggcatgcgtt	3180
ttcaagcatg	agcggtggcc	ccctggggga	aggcacctcg	gcagggcaga	acaaagggaa	3240
gggaccccca	aacaggtcac	tggtgtaatt	gtccccagca	ccccaaaga	ggaggagaac	3300
ccacaactcg	gaactggggc	tcacccccga	tgcccaacct	gtccccagcc	tgggaagcag	3360
gcgtggagga	gaaggtgggg	ggagcctaga	gctggccctg	ggggccctgg	ttttgtccat	3420
gacgggagcc	tcggcaacct	agtccgctct	cccggggacc	aggtttgcag	acaggcacct	3480
ttcaaatgct	cctcaccccc	aaatttacaa	gtcaccctgc	agaggaaaac	atcaacacag	3540
ccaggggttc	tctgctggag	gctccccctt	ctataggcac	agccggagag	gccagagagc	3600
tggggacacg	gggaggctgc	agaaggctgg	tgggaagggg	ggcagtgatg	ggtggggaga	3660
gatgggccag	atgttcttgg	aatgggacat	gggggtgatt	gatgcagaca	gaaatttgaa	3720
ggggacattc	ccacgtgtct	tgttctgtgg	gtggaaaatg	ggctgttttt	catggtgggg	3780
gcgggttctc	cctgtcttgc	caagctaatg	tgaaagagat	gcctcatcct	gcccagctcc	3840
ccacacctgt	ccaaggccat	taacttctgc	ctccccagtg	tcaggctttg	agatgccccc	3900
cttctagccg	gggtcctcct	atggggtgac	aatggggaca	agcaatgccc	actgtagttg	3960
ccccaggatc	ccccaccatt	ctgctggtcc	ccagcggtgc	cccctctctg	gcagtacccc	4020
cacccacccc	acaggtcccc	ttagggccac	tgcccatcgc	ccgacattgc	ccaacgccaa	4080
ggggtgacct	tgttcctgcc	gacagggccg	ttgggcgcct	gcatgcgggt	ttaatatttg	4140
cctataagga	actgggcttt	ccccagccgg	agtggacaga	ctttccctga	aaattcgctt	4200
ggagagaacg	aaaagagacc	ctggcacccc	agcggcgtgc	agccctgcac	cccctcctc	4260
ccgggccccg	tgtttctcat	tttcctcccc	acttcctctg	ctcttcagtg	ttacccaaac	4320
aaaactggtt	tcacccttgt	ttggtgctgg	cgaaggcccg	aacggcgcgc	gcaaagctcc	4380
ggggcaggcc	ggaggtggcc	accgggggtg	ctccgggccc	ccaagccaag	ccggggaata	4440
geetgeecee	ggtggcggct	cggccgcggc	ttcgcctagg	ctcgcagcgc	ggaggcgagt	4500
ggggcgcagt	ggcgaggggg	agcctgcgga	cctcccacgc	ggggaccgag	caggtatctg	4560
ggagtcccgg	gagcgcccgg	gaagcagcgt	cctggtcgct	ccctcgcggc	ccttgggttt	4620
cttccttaca	cccggacgcc	cgctaagctc	gggctgccgc	cacaaacgcg	ctctccgtgt	4680
ggagaaggca	aagaaaaaaa	aaataaaagc	aaaaggaaga	aaaaccccaa	agaacgaaaa	4740

gcagaatttc agccggccgt gcgcgccagg gcgctccgcg ctac	cetgeec gegeegeeeg 4800
cgctcgggtt cccggggagg gcgccagtgc tccgcgcgcg ccc	cagecaa ggtgaateee 4860
cggcagcgcc ttccttccgc tgcccgggaa gcttgagctc aaca	aattagc ccttgatcct 4920
cgggggattc caatccacgg aacaacttcc ctgctttccc cga	actegga cattttactt 4980
tttctgggat cc	4992
<210> 36 <211> 25738 <212> DNA <213> Homo sapiens	
<pre><400> 36 gatccctgag atgaagtggc tctgtcagga ttcaatcaga gaag</pre>	gcaccac ctcctcacgg 60
tcaaagggca ggggctttgt tggaagggat cggaccttct gcca	aagatgg agctccaggc 120
tgtctgtgag acgctactgc ccggctctgg ggctgggcct gaag	gccagca ggacaggtgg 180
tcaggaaaga agatgggcaa gaagtgggaa ggggcaaggg cca	cctggac ttcacgaggc 240
cacacgtgaa cccacgtgga cagtccagtg ccctacatct gtc	tettace actttatget 300
gcactgaata atgttccctg gaaattcatg tccacccagg acci	tgtgagt gtccccggaa 360
attcatgtcc acccaggacc tgtgagtgtc cccggaaatt catg	gtccacc caggacctgt 420
gagtggggtc ttctgtggac aagggctttt gtgggtgcaa ccaa	aataaag acaaagtcac 480
actgaattga ggcgggggga agcatccatt caatgagtgt cgt	ccttgta acaagaggga 540
aatttgcaca cagagacaga cacacagtgg aggaggccgt gtga	aagacag aggcagagac 600
tggagcaacg cagccacaca ccacaggaca cctggagccc cca	gaagcca gaaggggcaa 660
ggaggggcca cgctagggcc ttgcgaaaga gggcggccct gcc	ctccct gggtggtgaa 720
cetetggget ceagagetgt gagagagtee attectatgg etak	aagccac ccagtctgtg 780
atcactgtca cagcagcccc aggaatcaaa cccctccaat ccc	aaaacac aggggacatc 840
cggaggagca agcacccctc accagggggc cacagacacc cat	ggcccag gacccagagg 900
agetgeagge ttagggeeca gggeeageag getgageeag gga	cggtgac accaggcatg 960
cgcagcagca gcacccaggc agcaccccag cagatgccaa tgt	ggtggcc gcttccaccc 1020
actggtcacg ttgcagccgg gtgagtctgc cagggctgcc gca	acaaacc gccatggacc 1080
gggaggctta aatgagggaa atatateete teecagteet ggag	ggctgga gtccaagatc 1140
agggctgctg cagagctggg tcctccaagg cctctctcct tgg	cttatag atcctgcctt 1200
ctccacatgt cctcacgggg tcatccctcc gtgtgtgtct gtg	tectect etectettee 1260

tataaggaca cagtcctatg agactgtgct cacccctgct cacatcagga gaacggtcct 1320

gtgtctcctc	tcgggacctc	atcttcatgc	ctccccttg	gttaccccac	ggtcaggact	1380
cagccaccag	cgtgagccca	cacaccggct	ctggagtggt	gggcacaggt	gagagggagg	1440
tacagctgcc	acagccagga	aaccccagga	cgatcctgaa	tgggcccaga	gctggctttt	1500
ctctgtcacg	gagagagaca	tgagagggtc	atgagtgtga	agatcgccag	ctcccagggt	1560
cagggcccag	cctccttcca	tctcactgct	ctggactcct	cagttcctca	tggagtctgt	1620
ttagtgcctc	tccagaaaag	acaagttgaa	gccctgacca	ccagcatctc	agagcacgaa	1680
ctcatttgga	aatagggtca	ttatagacgc	aatcgatcag	gtcagactgc	agtagggcag	1740
gccctgaatc	aaacatcatg	gtgtcctcac	aggtagagga	gaggcacgag	agagcaacgc	1800
tgcgtgaagg	cgcaggatga	gagcatcctg	gaagatgggc	acggctgggg	tgacaggtct	1860
gggagcctgg	gaacactggg	aaagtcggcc	agcactggag	cctcccttag	agctcgaaga	1920
aggagccagc	cctgaccacc	ccgactctga	ccttctagca	tcgaaacagg	gagagacgca	1980
ttccacgtgg	ttgttccaat	cagcccagtt	tetggggett	ccttatggca	gcctcaggga	2040
actggcaaag	cccaagtggg	ctatcccatt	acttatatct	gggtaggtcc	cagccacagg	2100
ggagagagaa	gagaaagccc	ctctatctaa	tgacacgctg	tactcatgtc	ccacccgcat	2160
gatgtgccgt	acccgtgtcc	ctatccaggt	gacgtgccgt	acccgtgtcc	cacccgggtg	2220
acgtgccgta	cccgtgtccc	acccgggtga	cgtgccgtac	ccgtgtccca	cccgggtgac	2280
gtgccgtacc	cgtgtcccac	ccgggtgacg	tgccgtaccc	gtgtcccacc	cgggtgacgt	2340
gccgtacccg	tgtcccaccc	gggtgacgtg	ccgtacccgt	gtcccacccg	ggtgacgtgc	2400
cgtacccgtg	tccctatcca	ggtgacgtgc	cgtacccgtg	tcccacccag	gtgatgtgct	2460
atgcccatgt	cccacccagg	tgacacgcta	tacctgtgtc	cctatccagg	tgacacgctg	2520
tgccatgtcc	ctatccgggt	gacactgtgc	catatcccta	tccaggtgac	acacagtgct	2580
catgtgtcta	tctagatgac	agcaccgtgc	ccacatcttt	atcccggtga	cagcactgtg	2640
cccacgtcct	gtcttggtga	catcactgtg	gttatatacc	tgtccatgtg	acatcactgt	2700
gcccacatct	gcctccaggt	gacagcgctg	tgcccacatc	cccacccaag	tgctctgggc	2760
accttggctg	gggctctggc	cactttcatg	ttggtgccac	cctgtgtgtg	gatcatagca	2820
cccaggcact	caccattacc	gtggccagca	cagaccagac	ccgaccccag	tagtcctcaa	2880
aactaggtcc	cctgctgggt	gcggtggctc	acgcctgtaa	tcccagcact	ttgggaggct	2940
gaggcgggcg	gatcacaaga	tgaggagatc	gagaccaacc	tggctaacac	ggtgaaaccc	3000
catctctact	aaaaatacaa	aaaattagcc	gggtgaggtg	gtgggcgcct	gtagtcccac	3060
ctacttggga	ggctgaggca	ggagaatggt	gtgaacccgg	gaggcggagc	ctgcagtgag	3120
ccgagatcat	gccactgcac	tccagcctag	gggacagagc	gagactcaaa	aaacaaaaa	3180

3240 acaaacaaaa aaaaactagg tcccctgtgc tgtgctgctg taccccagca gtcgcttcac 3300 tggcaagact actettagca ggtgcgcctg gaagcagaaa ctgggcagct cccggtctgt cctatacaca tgcaaatgcc ccattagaaa gcaaatagcc cgaggtgttt gcctgctccc 3360 3420 aggeaaaate teecaaatet teeteeggga ateagtgaac agaagagatg teeateacee ccaggagagt agtgtctgaa cccgtctaac cgcccaacag gttctccctg ccgccggtct 3480 ggacagaget getttateae aacaggtgae ttgcaataaa gtttaattea cacagagteg 3540 3600 gccgtgcagg agaccagagt tttattatta ctcaaatcag tctcccagga aatttgggga 3660 tcaaagtttt taaggatcat ttggtgggta ggggggagt caatagggag tgctgattgg ttgggtcaga gatgaaatca tggagagtca aagccatctt tttctgctga gtcagttcct 3720 gggtggggc cacaagacta gatgagccag tttatcaatc tggggggtgc cagctgatcc 3780 acccagtaca gggtctgcga aatatctcaa ccactgatct taggttctgc aacagtgatg 3840 taatcctagg agcaatttga ggaggttaaa aatctttcag cctccagatg tgtgactcca 3900 3960 tgactcctaa accataattt ctaatctgtg gctaatttgt tagtcctgaa agtctagtcc 4020 ccaggcagga agagggtctg tcctgggaaa gggctgttat tgtctttgtt tcaaagataa 4080 actataaact aagttettee caaagttagt eeageetgea eecagaaatg aataagaagg caagacagag ttggttacgt cagatetett teattgteat aattttetgt tatatatttt 4140 tttttttttg agacagagtt tcgctcttat catccaggct ggagtccaat ggctcgatct 4200 tggctcactg caacetecac etceggagtt ccagtgatte teetgeetca geeteccaag 4260 4320 tagctgggat tacaggcgcc caccaccatg cccagctaat ttttgtattt ttagtagaga tgggatttcg tcaggttggc caggttggtc ttgaactcct gacctcaggt gatccaccca 4380 cctcggcctc ccaaactgct gggattacag gcatgagcca ccaccgccgg ccgattttct 4440 gtaataattt ttgcagaggc ggtttcacca ggagaaccaa gcattaatgc gctgtggctg 4500 4560 atgtgtagta gagcggcatt tcccaatggg agaaccctgg ggctgtctag gagcccatgc 4620 atggctggga gcctaatccc agggacacca ccgatgacag ctcccatagc acgtaggaca gtggatactt ggaggcaaag agaaatctct gttctgcagt ggtcatgact tggaccccaa 4680 agaacttgag cccaaggtcc agagggagac cctcccaaca gggcctccag caggaacagg 4740 gatcgtggga gcctgccaag cacagcgcac aggtatttct ggaggcttcc cattcagtct 4800 tggatgccag cctcaccgag ggcggcccat cttgctgacc tcaccaaggg aggcccgtct 4860 cactgccctg atggcgcaga atcggctgta cgtgtggaat cagaagtggc cgcgcggcgg 4920 cagtgcaggc tcacacatca cagcccgagc acgcctggct ggggttcacc cacagaaacg 4980

teccaggtet cecaggecag	gtgccgcatt	ggttcccgag	ggttgtcaga	gatagacact	5040
catgcgacta acatcgggct	atgtgtttga	ttcaccccag	ggtgcattgt	tgaaggttgg	5100
ggagattgga ggagatgctt	gggggacaat	gaggtgtccc	agttccttgg	atgataggga	5160
tctcggccta agcgtgagac	ccctcctaca	gggtctctgg	caggcacaga	gcctgggggc	5220
tcttgcatag cacatgtgta	tttctggagg	cttccccttc	ggtctcaccg	ccccgatggt	5280
gcagaatcgg ttgtagttgt	ggaatcggaa	gtggccgcgc	ggcggcagtg	caggctccca	5340
catcacagct caagcccgcc	ccagctgagg	ttcacccgcg	gaaacgtccc	gggtcacgca	5400
agctaggtgc cgcaaggttc	acgggggtag	tgagggatag	aacactcatg	ggagccacat	5460
tgggctacgt gtctgattca	ccccagggtg	cactattgag	ggttggggag	atgagatact	5520
ttggtgacaa tgaggtgtcc	ccattctttg	gatgatgggg	atctcggcct	cagcgtgagg	5580
cccctcccac agggtctctg	gcaggcacag	aaactggggg	ctcttgcgta	gcacatgggt	5640
atttgtggac gcttcccctt	ctgtctcacc	acccggatgg	cacagaatcg	gttgtaagtg	5700
tggactcaaa agtggccgcg	cggcggcagt	gcaggctcac	acatcacagc	ccaagccctc	5760
cctggatggg gttcgcccgc	ggaaacgtcc	tgggtcaccc	aagccaggtg	ccgcagggtt	5820
ctcggaggtc ttctgggaat	aggacgctca	tgggagccac	accacgtctt	cgtatcgggc	5880
catatccacg gccgcgtggc	cccaggtcac	actctgaggg	cttcagtgtc	atggcctggg	5940
actcaagtca cgcctacccg	cgtgatgagc	acagcaaatt	ccgccaaaag	cttatacttt	6000
ccacatccat cccagagcac	agatccgact	aaggacagcc	cccaaatccc	gagccttttt	6060
ctgaactgac aattgcctcc	ccagtgaaca	ctctgagctt	gtcaatctta	agtggccaga	6120
cattaacatt cccattcagt	gcaggtttga	gatgctaatt	taggagcttg	agatgctaaa	6180
gagctgggag tgccactgct	gctttattct	ggggtctagg	atccttgtgt	tggctgagat	6240
aatctgctaa tgtgggtgca	gcagacatcc	cgcggtttgt	ggaatcgata	aaggatgggg	6300
atcaatggtg tttgtgcact	gtgcggtctg	tgcccaattg	cctgccttgt	gctgtggaat	6360
ctgtacatct ggccaacatg	tgcttgtgtg	agcctgacag	tgcattttcc	agagcctcac	6420
ctcggctctg ccctggaggc	tctgtgctgc	tggaatcaga	ctcaaggacc	tcatcagagg	6480
accatggccc cgtatcacct	gggtcaggca	ctgaagctgg	gacaggagag	cagagacttc	6540
caaaatgagg gatccctgtg	ttctgaggtg	atcatgactg	ggacccaagg	actcaagcgc	6600
atgctccaga gggaatcgtt	tcccacaagg	cctttggcag	gaacagggat	cctgggagcc	6660
tgccaagcag agcgcacagt	gttcctggag	tetegetgee	cagatgccac	ggaatcagtt	6720
gaaggtatgg aaacacaggt	ggccacgtgg	tagcagggca	ggctcaggcg	tcatagcccg	6780
agcccggcta cctgtggttt	gcctgcagaa	acatcccggg	tcaacaggcc	aggcaccgca	6840

ttggttcgcg	agggtcatcg	ggggtaggac	ccttgtacga	gccacatcgg	gctacgtgcc	6900
tgattcaccc	cagggtgcac	tgttgaaggt	tggggagatg	agaggagata	cttgggggac	6960
agtgaagtgt	ccccattctt	tggatgatgg	ggatctcggc	ctcagcgtga	gacccctccc	7020
acagggtctc	tggcaggctc	aagagcccag	gggctcttgc	atagcacatg	aatatttctg	7080
gaggcttccc	cttcagtctc	accacccgga	tggtgcagaa	ttggttgtag	ctgtggaatc	7140
ggaagtggcc	gcgtggcggc	agtgcaggct	cacacatcac	agcccgagcc	cgccccagct	7200
ggggttcgcc	cgcggaaacg	tcccgggtcc	cgcaagccag	gcgccgcagg	gttcacgggg	7260
gtcatcaggg	ataggacatt	catgggagcc	acatcgggct	atgtgtctga	ttcaccccag	7320
ggtgcactat	tgagggttgg	ggagatgaga	ggagatactt	gggggacaat	gaagtgtccc	7380
cattctttgg	atgatgggga	tcttggcctc	agggtgagat	ccttcttgca	gggtctctgg	7440
caggcacaga	gcccgggggc	tcttgcatag	cacatgtgta	tttctggagg	cttccccttc	7500
agtctcaccg	cccggatggc	acagaattgg	ttgtagttgt	ggaatcggag	gtggctgcgc	7560
ggcggcagtg	caggctcaca	catcacagcc	tgagcccgcc	ccagctgggg	ttcgcccgtg	7620
gaaacatccc	aggtcatcca	agccgggcgc	cacagggttc	acaggggtcg	tgaggtatag	7680
gacactcatg	ggagccatat	cgggctacgt	gtctgattca	ccccagggtg	cactgttgaa	7740
ggttggggag	atgggaggag	atactagggg	aacaatgagg	tgtcccagtt	ccatggatga	7800
tggggatctc	ggccctagtg	tgaaaccctt	ctcgcagggt	ctctggcagg	cacagagece	7860
gggggctctt	gcatagcaca	tgggtatttc	tggaggcttc	tccttcggtc	tcaccgcctg	7920
gatggcacgg	aattggttgt	agttgtggaa	tcggaagtgg	ccgcgcggcg	gcagtgcagg	7980
ctcacacatc	acagcccgag	cccgccccaa	ctggggttcg	cccgtggaaa	cgtcccgggt	8040
cacccaagcc	acgcgtcgca	gggttcacgg	gggtcatctg	ggaataggac	actcatggga	8100
gccgcaccag	atcttcaggt	cgggcattat	ccacagcccc	gtggccccgg	gtcacactcc	8160
gagggcttca	gtgtcatggc	ctgggactca	agtcacgcct	acttatgtga	tgatcacagt	8220
gtgttccacc	aaaatcţtac	attttccaca	tctatcccag	agcacagctc	cgactccgtc	8280
taaggacagc	ccccaaatcc	ccagcctttt	actgaactga	caattgcctc	cccagtgaac	8340
actctgatct	cctcagccct	aagtggccag	acattaacat	tctcattcaa	tgcaggtttg	8400
aggtgctaat	tcaggagctt	aagatgctaa	agagctggga	gcgccactgc	tgctttattc	8460
tctggtccag	gatccttgtg	ttgctggaga	taatccatta	tcgtgggtgc	agcagacacc	8520
ctgcggcttg	tggactcggt	acggggtggg	gatcctgatg	gggttaggat	gttcgatggc	8580
tcgggtgtgc	tccacgctca	gggatcatca	cgtccggccg	gcggtagttg	gcacgtggag	8640

aggtgaattt	gcccacaggt	gttccccgtg	cctgcgcatt	gctggcagca	cgaccggatc	8700
ctgtgctagc	ccctcccaca	atgcctggag	caggagcgag	gggcctgggg	agccgccttg	8760
cctggagcat	ttgtatttcc	ggagtatttc	ctgagtctcc	ccttgggtct	tgggtgctgt	8820
ccccagtgag	cccatctccc	agcgatggca	cagaatcggt	tgtggctgtg	gagacggaaa	8880
tggccgagag	gcggcagtgg	tgactcacat	cacagtctga	aggtgaccca	aggctggact	8940
ccacttttag	caaaatgtgg	gggtctgcct	tggtctccta	acttgggggt	ccactcatgg	9000
aaaagcctga	gaattttcat	gccatggaaa	ttcccccatg	tcgtggggtt	cacgcacgac	9060
aaagcccggc	ggtcagtgct	cagcaggcaa	gcactcagcc	ctttccggtg	gggccatggg	9120
aacagagggt	ttgccgaagg	cgcggccagc	ccttccacat	cccagagggc	ctgctgggtg	9180
attggacccg	tgaactctgg	gtcccttggc	cctggtgctc	cccttcacgg	ctttgacact	9240
cgagacttga	ggtgaacccc	agggactgca	gggccccaac	aaccctcacc	aaaggccaag	9300
gtggtgaccg	acggacccac	agcggggtgg	ctgggggagt	cgaaactcgc	cagtctccac	9360
tccactccca	accgtggtgc	cccacgcggg	cctgggagag	tctgtgaggc	cgcccaccgc	9420
ttgtcagtag	agtgcgcccg	cgagccgtaa	gcacagcccg	gcaacatgcg	gtcttcagac	9480
aggaaagtgg	ccgcgaatgg	gaccggggtg	cccagcggct	gtggggactc	tgtcctgcgg	9540
aaaccgcggt	gacgagcaca	agctcggtca	actggatggg	aatcggcctg	gggggctggc	9600
accgcgccca	ccagggggtt	tgcggcactt	ccctctgccc	ctcagcaccc	cacccctact	9660
ctccaggaac	gtgaggtctg	agccgtgatg	gtggcaggaa	ggggccctct	gtgccatccg	9720
agtccccagg	gacccgcagc	tggcccccag	ccatgtgcaa	agtatgtgca	gggcgctggc	9780
aggcagggag	cagcaggcat	ggtgtcccct	gaggggagac	agtggtctgg	gagggagagg	9840
tcctggaccc	tgagggaggt	gatggggcaa	tgctcagccc	tgtctccgga	tgccaaagga	9900
ggggtgcggg	gaggccgtct	ttggagaatt	ccaggatggg	tgctgggtga	gagagacgtg	9960
tgctggaact	gtccagggcg	gaggtgggcc	ctgcgggggc	cctcgggagg	gccctgctct	10020
gattggccgg	cagggcaggg	gcgggaattc	tgggcggggc	caccccagtt	agaaaaagcc	10080
cgggctagga	ccgaggagca	gggtgaggga	gggggtggga	tgggtggggg	gtaacggggg	10140
aaactgggga	agtggggaac	cgaggggcaa	ccaggggaag	atggggtgct	ggaggagagc	10200
ttgtgggagc	caaggagcac	cttggacatc	tggagtctgg	caggagtgat	gacgggtgga	10260
ggggctagct	cgaggcaggg	ctggtggggc	ctgaggccag	tgaggagtgt	ggagtaggcg	10320
cccaggcatc	gtgcagacag	ggcgacatca	gctggggacg	atgggcctga	gctagggctg	10380
gaaagaaggg	ggagccaggc	attcatcccg	gtcacttttg	gttacaggac	gtggcagctg	10440
gttggacgag	gggagctggt	gggcagggtt	tgatcccagg	gcctgggcaa	cggaggtgta	10500

gctggcagca gcgggcaggt gaggacccca tctgccgggc aggtgagtcc cttccctccc 10620 caggectege ttecceagee ttetgaaaga aggaggttta ggggategag ggetggeggg gagaagcaga caccctccca gcagaggggc aggatggggg caggagagtt agcaaaggtg 10680 10740 acatettete ggggggagee gagaetgege aaggetgggg ggttatggge cegttecagg 10800 cagaaagagc aagagggcag ggagggagca caggggtggc cagcgtaggg tccagcacgt 10860 ggggtggtac cccaggcctg ggtcagacag ggacatggca ggggacacag gacagagggg tececagetg ceaecteace caeegeaatt catttagtag caggeacagg ggeageteeg 10920 10980 gcacggettt etcaggeeta tgeeggagee tegagggetg gagageggga agacaggeag 11040 tgetegggga gttgeageag gaegteaeea ggagggegaa geggeeaegg gagggggee ccgggacatt gcgcagcaag gaggctgcag gggctcggcc tgcgggcgcc ggtcccacga 11100 ggcactgcgg cccagggtct ggtgcggaga gggcccacag tggacttggt gacgctgtat 11160 geceteaceg eteageeeet ggggetgget tggeagaeag taeageatee aggggagtea 11220 agggcatggg gcgagaccag actaggcgag gcggggggg cggagtgaat gagctctcag 11280 gagggaggat ggtgcaggca ggggtgagga gcgcagcggg cggcgagcgg gaggcactgg 11340 11400 cctccagage ccgtggccaa ggcgggcctc gcgggcggcg acggagccgg gatcggtgcc tcagcgttcg ggctggagac gagggtgagt ttttccccct ctgccaccct cagcccccac 11460 11520 ccgccctcc ccacacaacc aacacgttct ccccacacga ctctctcgtt ctccccacag 11580 ccaggtctcc agetggggtg gacgtgccca ccagctgccg aaggccaaga cgccaggtcc 11640 ggtggacgtg acaagcagga catgacatgg tccggtgtga cggcgaggac agaggaggcg 11700 egteeggeet teetggtgag egtgtetgee etceetgegt eaggaegegg eeetgeeeag accgccccgg cgcgccacca tctcactgcc ccgacctctg tcttctacag aacaccttag 11760 gctggtgggg ctgcggcaag aagcgggtct gtttctttac ttcctccacg gagtcggcac 11820 11880 actatggctg ccctctgggc tcccagaacc cacaacatga aaggtgaggg gcttcctgcc 11940 acacttgggg tggggggcac gcgagaggag ctgagtggga cctcaactcc ttccccatcc 12000 acagaaatgg tgctacccag ctcaagcctg ggcctttgaa tccggacaca aaaccctcta 12060 gcttggaaat gaatatgctg cactttacaa ccactgcact acctgactca ggaatcggct ctggaaggtg agcaccagcg ctccttccgg aagcctccag gcccccgagc accctgcccc 12120 12180 catcccaccc acgtgtcgct atctctaggt gaagctagag gaaccagacc tcatcagccc aacatcaaag acaccategg aacagcageg ceegcageac ceaeceegca eeggegacte 12240 12300 catcttcatg gccaccccct gcggcggacg gttgaccacc agccaccaca tcatcccaga

gctgagctcc	tccagcggga	tgacgccgtc	cccaccacct	ccctcttctt	ctttttcatc	12360
cttctgtctc	tttgtttctg	agctttcctg	tctttccttt	tttctgagag	attcaaagcc	12420
tccacgactc	tgtttccccc	gtcccttctg	aatttaattt	gcactaagtc	atttgcactg	12480
gttggagttg	tggagacggc	cttgagtctc	agtacgagtg	tgcgtgagtg	tgagccacct	12540
tggcaagtgc	ctgtgcaggg	cccggccgcc	ctccatctgg	gccgggtgac	tgggcgccgg	12600
ctgtgtgccc	gaggcctcac	cctgccctcg	cctagtctgg	aagctccgac	cgacatcacg	12660
gagcagcctt	caagcattcc	attacgcccc	atctcgctct	gtgcccctcc	ccaccagggc	12720
ttcagcagga	gccctggact	catcatcaat	aaacactgtt	acagcaattt	gtctcgagga	12780
ctctggaatc	cgggctgtgg	gcatgatgtg	ggggaggcca	gccttgggca	gagggggct	12840
ggggggcatg	gggaggagta	catgaaaagg	gggatggggg	ttccagggtg	ggggattctg	12900
ggatgggtgc	agcgcagcac	acaccagggg	tggggtgagc	acagggtgtg	tggacctcag	12960
gggtgcaggg	caggcggtca	gcatgcagtg	atggcagtgg	aggggctgtg	ggaccagggg	13020
cttcacagac	tgggcggggg	ctgggcttgc	ggagggggcc	tgcgctctga	ggcaggggtc	13080
ggggaccacc	aaaccatccc	cgagcgagtg	cctcctgtcg	ccccaaagtc	ccatcagaat	13140
gacgccttgg	tgctggcccc	agacccctga	agcccgggct	aggtgactgg	ggtagagctg	13200
gccatggccg	ctctgggagg	cccacaaggt	gctctgggcg	accccacccc	gacaggggca	13260
cgaaccccgc	gccagtcccg	ttcctgctcc	ccttttgctg	tgggtgggag	ccggggccac	13320
gccggaggga	cggccccgca	caaggagcca	gggggttggg	ggggagccgg	tgggcttctc	13380
agtgggcagg	tggccttggg	gcagaggtcc	taaggaggcc	aggggaccag	gaggaggag	13440
gaaggagttg	agggtggcca	cagggaggag	gtgaggagga	gcgggagggc	ccagggtgag	13500
gggctcccgg	gctccctccc	cggggtcttg	ctgctggagc	tccaagaacc	ccggtatgca	13560
ggggttcgct	ccccaggtgc	caaggcagcc	cactcatggg	ttcggggtca	gcttccccgc	13620
agaggccagt	ggccggcagc	tccctcagcc	aggcctccca	gctcctggcc	cctcgctgtg	13680
caggcgctgg	gaacacaagg	ggcagcccct	ggaaataagg	gtggggtccc	ggcctcccca	13740
ttccttcccc	cctccccct	gccttccacc	cccattccca	gtgcacagag	ctgtcaggaa	13800
aattcctccc	cgactgacaa	agaacagaca	ggaaggcggt	tagggacgcc	cctcccctac	13860
cggcccagcc	gcccttgggg	tcttggtgtc	cagggcggaa	gagcagggtg	gttccccacg	13920
ccccttgggt	ctggcctccc	ctctgcaccc	tctcttgccc	cctccccatc	cagctgtggg	13980
ccctggggac	tgtcagagac	cgaggggttt	ccagggacac	acttgtgtgc	taaaacctgg	14040
gcgggtggtc	accccccagg	atgcatgtag	acatccggtg	agggagtctc	ttgaagtctc	14100
tgggatggtg	cccctgggac	tggctgccat	ctcatggagg	aggtcagagg	tegetgggge	14160

cageceaggg tgaggeegea tteatettee tgaecetaea ggeeaatttg aettaeceaa 14220 gtgggttttg gccggcagga tgaagtaacc catccattac atgtcaagag ttaggtctat 14280 14340 aaacggcctt tattataaac atccaactct gcaggaggtt tacaaagcag ggctcaggag 14400 ataaaagccg gcttccccag gtggcggctg cagggtgcgg caggcagccc caggggtgcc cagggtggcg gggcagggga accgtaggga gggggagagg ggcacccaga aaacctctcc 14460 14520 tggggaacat ggaagactct gcccacttca aatccctgcc tggggaagga cacatgggaa tggggccggg ggaaaaggcg ggccacctcg ggccttcgtc acctgtgtca gctcctaggg 14580 14640 attgtctcct cctggtcact tggagagaac aggcgtgctg gacacgtcca catctctggg 14700 cccaggggtg tatgaatgac acgettgete tggagtttee acetgggage tgtatgggga 14760 cagggetgtt ceteeteaca eeegetgggg aagggacaca ggeetettgg tggeeeeeac 14820 cateteccag caetgeccat ggetgtgecc aegetggetg ecceetgaga geaggaegtg tactcagggg cagcgcctac ctctgggcag cccaggtttc tctgctccct gcagcggaac 14880 gggcttccta gggcagttcc tggggtggtg tccctagggc agcccctgag tgctggaggg 14940 15000 ggtctgcgcc acaggccctg aaacagggag gtggtggggg cagcgttcag ggggctgaac 15060 ctcagggtga ggcgggcagg cggggagcca caggcccggg ggccccgcag caggtgctca 15120 gcctcggagc ctcctgccgc accccggggc gggggctggg agcccgcccg agcccctagc tetgagegae etgeeaggtt ggaatgtgtg tttatetttg geecaaceeg attteetget 15180 15240 ttttagaaaa ggggcttaga gagggttgtt agacaggctc caggcacccc aacacccaaa 15300 ggcactttga aaacgcccct gcactgactt cagtgcggag aagcaaacgg gctggaattt 15360 cacteceaaa ceceaacatg ggggtggegg ggeeggggtg agggttgtgg etgeetgeaa aggtgccagg aaatctgggg agggaggaac ttccaccgtt cagggagacc ctgagggtgc 15420 cctggcttct ggccacgtcc cagaccctgt taggcaccga ggtcttcaca cccagaccct 15480 ccacccaccc aagtttctgc ggcacgttta ggttgagtga agaccaagtc atccagttag 15540 agaagaggac ttgaggegeg tgetgetget gtggeeaege tggaeetegg tgeaegeate 15600 tcctggcgag tcccctgaga tggcctgtgc agccatacac acccggggca cgcgacctca 15660 15720 gctacctcgt caccgaggac gtgcatccac agctgtgcgt ctgtgcctgg gagcggggtc tccacttggt gggtctctgc atgctgacca gttaacccgc ctttccgggc tgtggagggc 15780 15840 gtgggtcctg tccggcccgg agatgctccg cggggtgtgt gtgtgatcgt ggccctgtag cggggtggtg ttccctggag ggtggacccc tgagcctggc tgtgtgtggc tcgtgtctca 15900 gcatgaattc cgtgacccag gagcacgttt tcaggcaggg attaggggca gctgggtgtg 15960

ggaggcaggc	acttggtata	ccaccgaatg	gagacagaaa	atcccaactc	tacgaaggaa	16020
gtgaagtccc	ttcaacaggg	acaaagcgat	gttttgggtc	tgactacaat	gcaccctggg	16080
aagtctcaaa	gaaaacagtc	gggtactcaa	ggagggcagc	ccctctccc	cgaccccgag	16140
ctcccaggaa	gataaatgat	ttcctcctct	ctagagatgg	gggtgggatc	tgagcactca	16200
gagccaaggg	cgcagtgggt	ccgggcgggg	gccctcctcg	gccctcccaa	catgggggcc	16260
aggaggtcag	cccctcaacc	tggaccccgg	ctgggtctca	gggaatggtc	tcccccagtg	16320
gcccagcttg	cttgttttca	gatgggtgtg	cacgggtgtg	tgtgtgtgtg	tgtgtgtgtg	16380
tgtgtgtgtg	tgtgtgtgat	gcctgacaag	ccccagagag	ccaaagacct	gagtggagat	16440
cttgtgactt	ctcaaaaggg	ggattggaag	gttcgagaag	gagctgtggt	cagccttgct	16500
ctcccttaag	gctgtggtaa	ccacactagg	catagcatag	gcctgcgccc	cgtccctcct	16560
tccctcctcc	gcgcctctcc	tttctctttc	tccccctct	accccgctcc	ctggcctgct	16620
cctggtgaca	ccgttggccc	ccttccaggg	ctgagggaag	ccagcggggg	ccccttcctg	16680
gaagcccacc	tgcaggccgg	cttgctggga	aggggctgct	ctcgcagagg	ctcccgcccg	16740
ccctgcagcc	gtttcctgga	agcagtcgct	gtgggtattc	tgttccttgt	cagcactgtg	16800
cttgcaaaga	aagcagacac	tgtgctcctt	gtccttaggg	ageceegete	catcacccaa	16860
cacctggctg	gacacaggcg	ggaggccggg	tccgcgggga	gcggcgcggg	gctggggccg	16920
gaccagtaaa	cacacacggg	cgccaggcac	tgcaggctcc	tcctcctcct	cctgcccagc	16980
gcctctgctc	acaggcacgt	gccaagcccc	taggccagga	ggcccagcag	tgggtgcaga	17040
gcaagctcct	gggaaggggg	tgcagggcgg	acccccgggg	agaagggctg	gcagggctgt	17100
gggggacgct	gaccgtgggc	cccacgttgc	agaaaactgg	ctgcctggct	ggaagatggg	17160
ggagatgcca	agcctctgag	gcagcacgag	cagggtgcat	ggaggccggg	gcgcggggag	17220
gctgcactgc	agcatgcacc	ccaaagccca	gagggagtgg	agaccaggcc	ctggaatcga	17280
gaagtagaaa	ggcggcttgg	aggcctcgga	accggctgac	ctccaacaga	gtggggccgg	17340
ccctggaggc	aaagaggtgc	ccggggtccg	gccctgcctg	ggggagctat	gtgtcatggg	17400
cagccacagg	atatgtagcc	agctctgagc	atatggaccc	agggcagggc	tgcaaggcag	17460
ggcaggggaa	acagacgggg	gagcaaggag	cagagagggg	gcctcaggct	ctcccaggag	17520
gaacattctc	ccgacaggag	gaagagacgg	cccaggggtg	actgtgggga	gccatggtgg	17580
cagctggggt	cgtggcagat	gggagagagg	ctggcgaggt	gaaggtgcag	gggtcagggc	17640
tetggggeee	acatgcctgt	gggagcgggc	aggcccaggg	ctctccgcca	ctccccactc	17700
ccgcttggct	cataggctgg	gcccaagggt	ggggtgggat	gagcaggaga	tggggcccag	17760
ggggcaagca	gggccccaaa	gacatttaga	aaaaccggtt	tatgcaggca	gcattcagag	17820

17880 caggeggegt gegtggeggg ggeeetggga geacagagag geacaegtag ggeeeeegag 17940 gggctcccca ttggccggca gtgacatcac ccctgtgtca acagtgatgt ctgcagctcc 18000 ggccagccag ggtttatgga gcgagaccca gcccggcctg ggccctcact ccccaggccc acacactage ceaetgttea gggteegggg tggeggeatg geetgggggt cetggeaceg 18060 18120 ctgctcctct gcccacccta acttcccggc atggcggctg ccccctctga gcgtccccaa 18180 ccagtaagtg tggggccagc aggcctgccg tcctcctcct cttccctcta gagagaaacg tggaggtcct ggggctgggg gcgctcatag ccctgtgaca caggtgcatg gggtcagggg 18240 18300 teccagaatg geeettggga aggaceteag etgggeegge ggetetagge tteaggggte 18360 18420 18480 gacagggaag ggccgccgtg gtgcctgttc ctgcccacct ggctgtgtgg tcccctccaa gtagggacaa cccttctgag ggcttggggg caccctgggg ttgccagggc ctcccagagc 18540 cetgtgagee cetgggggt etggeetgat geceeetee aegteeaggg eeggetgtgg 18600 cccagaaccc cagcttccca gcaggceggt gtgcggtggt gacccaggag aggcctcgcc 18660 18720 tccactgagg ggccaccgac ctctgccagg ccacagagac ccccaaggag tctgaaggct 18780 ggagaccegg ggctgggacc aggtgggact ttcccacgga gccgtcccca ggcccagctg gggacacgtc ccccttctct ccagacacac cctgcctgcc accacgacac accggcctgt 18840 tgggggtete ttttaagtge etgecactet gaggtgactg tecettteea aagaggttte 18900 tggggcccag gtgggatgcg tcggcctgag caggaggatc tgggccgcca ggggctgggg 18960 19020 actgtctcct ggggaaggaa gcgcctggga gcgtgtgtgc tgacccagga ccatccaggg 19080 aggecegtet gtgeggeaag egggaaggga geggetggag aggettggee geeeeegeee tgcctcccat tccttagctc cctgcctgtc aacctctgtc acccagtgag tgatgtccag 19140 19200 gggccctgga aaggtcacag catgtttgag cggggtgaga gagaggggaa aggcgggggc ggggaaaagt acgtggagga agctctaggc ccaaggaagg agaaagggtt ctgggaggga 19260 gggagccact ggggccgccg ggagggtccc tgcctgctgc tgccacccag aaccctcgcc 19320 tettagetag ecceegeage eccageettt etggeetgtg eccetetece ecatececag 19380 19440 ctgtcctgtg caaccaggcc ttggacccaa accetectge eccetectet ecctecteae 19500 ccaggectag ageetecagt eccggtggee eccagecega gggtgaaegg ceteaecetg 19560 ggtcgtggga cagagggcac gttcatcaag agtggctccc aagggacacg tggctgtttg 19620

cagttcacag	gaagcattcg	agataaggag	cttgttttcc	cagtgggcac	ggagccagca	19680
ggggggctgt	ggggcagccc	agggtcaagg	ccaggctgtg	gggctgcagc	tgccttgggc	19740
cccactccca	ggcctttgcg	ggaggtggga	ggcgggaggc	ggcagctgca	cagtggcccc	19800
aggcgaggct	ctcagcccca	gtcgctctcc	gggtgggcag	cccaagaggg	tctggctgag	19860
cctcccacat	ctgggactcc	atcacccaac	aacttaatta	aggctgaatt	tcacgtgtcc	19920
tgtgacttgg	gtagacaaag	cccctgtcca	aaggggcagc	cagcctaagg	cagtggggac	19980
ggcgtgggtg	gcgggcgacg	ggggagatgg	acaacaggac	cgagggtgtg	cgggcgatgg	20040
gggagatgga	caacaggacc	gagggtgtgc	gggcgatggg	ggagatggac	aacaggaccg	20100
agggtgtgcg	ggacacgcat	gtcactcatg	cacgccaatg	gggggcgtgg	gaggctgggg	20160
agcagacaga	ctgggctggg	ctgggcggga	aggacgggca	gatgggatcc	caaggacatg	20220
gaatttcgga	ccttctgtcc	ccgccctctc	tgctgagcct	aggaacctct	gagcagcagg	20280
aaggccttgg	gtctagagcc	tagaaatgga	ccccacgtc	cacctgccca	gcctagaccc	20340
ccagcattga	agggtggtca	gacttcctgt	gagaggaagc	cactaagcgg	gatggacacc	20400
atcgcccact	ccacccggcc	ctgcccagcc	ctgcccagtc	cagcccagtc	cagcccagcc	20460
ctgcccttcc	cagccctgcc	cagcccagct	catccctgcc	ctacccagcc	cagccctgtc	20520
ctgccctgcc	cagcccagcc	cagcccagcc	ctgccctgcc	ctgccctgcc	cttcccagcc	20580
ctgaccttcc	cagccctgcc	cagcccagct	catccctgcc	ctacccagct	cagccctgcc	20640
ctgccctgcc	cagccctgcc	cagcccagcc	ctgccctgcc	ctgcccagct	cagccctgcc	20700
caccccagcc	cagcccagcc	cagcatgcct	tctctggctg	gagagcacag	gcttgacctt	20760
agaaagaggc	tggcaacgag	ggctgaggcc	accaggccac	tgggtgctca	cgggtcagac	20820
aagcccagag	cctgctcccc	tgccacgggt	cggggctgtc	accgccagca	tgctgtggat	20880
gtgcatggcc	tcagggctgc	tggctccagg	ctgcccccgc	cctggctccc	gaggccaccc	20940
ctcttatgcc	atgaaccctg	tgccacaccc	acctctgagc	tgtccccgct	cctgccgcct	21000
gcaccccctg	agcagccccc	tgtgtgtttc	atgggagtct	tagcaaggaa	ggggagetet	21060
tcaatcttgc	cagtcagggt	gctgtctgct	gagtaagtgt	ccccgtgctg	tgccccaatg	21120
tccccatcct	ttggcaaaca	gccatcagcc	tgtggatcct	gcactcccat	gcggtgggag	21180
agggagacct	gggctcacct	gagcctcccc	acaagccagg	gagaggggct	gcccaatggc	21240
gggaggcccc	catggatccc	aaacggcagt	tgcccgcact	cctacccagg	aactttgtct	21300
gtgatgaaca	gtaaggaata	aggaagcggg	tgagaaagaa	ggaaggaaag	gcggtggggg	21360
gcatggcggg	gggcggggag	ggtgtttgga	aagttccaga	aaagagtcac	ttcaccagaa	21420
aggccacaag	ctccccgtgc	ccccagcccc	tgctcggctc	cgaggtgaag	gacttggagc	21480

gtcgacgctg gcgtggggac cagctgttct ccttgagttt gtttccttca gttccttccg 21540 ggcctcaccc tcctcttcct gccacacaca cacttttttc ctttttaaat tgttttattt 21600 ggggccaggt gtggtggctc acacctgtaa tctcagtatt ttagaaggcc aaggtgggca 21660 gattgcttga gtccaggagt tggagaccag cctgggcaac atagtgagac cccatctcta 21720 ccaaatatca gccaggtgcg gcggcgca cctgtattcc cagctatgtg ggagactgag 21780 gtgagaggat cacgtgagcc caggaggttg aggctgcagc aagccatgat cataccactg 21840 21900 ttattttaaa aaattgtttt aacatttgag tgctgcaact gtccaaggag gagcagacgg 21960 22020 cccgtgtcag acagcctgaa gcctgactgt ctgcgatcaa cggccccgtg gccagctgtg 22080 tgcagcagtt tggcctggcc tgatgcctct gtccttggca ccagctcaca gcccgtgccc ataacagacc tggggcaccg aaggaagggc agatccagcc cccacctgcc ctgggtctga 22140 agatetecea ggaggeteca tggggtgeet tgagtgggag gggetggeeg atageettga 22200 ggaattggca cggacatgca gagaggggca tgtcccaaac tcggggcgct gtggcctcca 22260 getgecagga ggtagatgtg ttetgaette tgggtteeca ceaecagaac tgeaggggat 22320 22380 atgaagcaag ctggacttgg ggagacatct ctgctcgagt gcacgttggc ctgatgacga ctgctcttgg gttcacgggt tccaggctct gcccgggagc ctcatgcaaa ctggtcccgt 22440 22500 tctacagatg aggaaactga ggcacagagt gattacggct gtccctgagc tcctgcagcc 22560 agtaaggtga tacaccagga tgtgttccca ggttgtccgc tgggctcagt aacacagtct caactgccct gtgacactgc gtgtctgtgc ttgtggggaa ggtgaccaga ggcccccttt 22620 cctccacgcg gtgagcctac cagcaaggag acagtcctca ggtgtgagga tgagcctcgt 22680 22740 agtaggcaca gagaaacagg aggaaccttc tggaaggtga agcctcccac ggctgggact cttggagaag ggcggatete tgtccactec tgcccactec ccagcacaga cagagcaage 22800 22860 aggacagagg gcccaacgtc ccaggatact gcagagctca aaggagggca gagagcatcg ccccacatgg gcgccgggag aaaggtgggc ggggtgctca ggggcccctg gccgtcctga 22920 agtttgcctc agagaggtgt gggcttctcc tccctcccat acacagtgtc tctgaggatg 22980 23040 aactgccatg tgcccggcgg ggatgccgtc cctggccctt gctgagtgcc tctgggacga 23100 ggtcagctga gcctgccatc ctaactcaga caccatctca ctctccaagt cccttctcgg tgagacgggg ggccttgcac ccacctccca gcccccacac acctgagggg gtccccgttc 23160 cectaceceg tggetecace acgeeceacg cateetacet gagggacaga ggggactgtg 23220 agatgccccc cacaggctgg ttttcctctt tcacccataa caggcccagc aaattctcac 23280

ctccagaggc	caggtctgcc	ccgcaggtct	taggaaatac	agccctactt	ccatccagca	23340
caccaaccca	aggaagtgcc	tcggagccct	ggggcccgag	gggggcctgg	ccttggtctc	23400
acggcggcag	ctccacctgg	agaggagtga	actcaagcca	ggacgccccg	tctccacagc	23460
ggaaaccgtg	ttgccggctg	ctccctcctg	gggactctgg	gcctgaggtt	cctgtgggag	23520
ttggggggat	agctgagtcc	tatggaggtg	cccctctcct	ccccgcccag	tggagcttgg	23580
ggtggggaca	ggcgaagaca	gggtgagaag	cacggggcat	tcccctcca	cacagcgctg	23640
agaaagtaag	ggagcatcca	gaaaacggtg	cccacttccg	cgtcaggcgg	atatcacggg	23700
caccagetee	aggtgaccct	agcccagcca	gagaacaagg	accaggttgt	gccgcaaagc	23760
ccgtgtccgc	tecetecege	ctgggaccac	tgtggcgagg	ggaagggagc	gtggtggccc	23820
tctcctgact	cctgaggcct	gaagtccaag	ctcccggccc	tcaggcaggc	cagggtctag	23880
acaccgctgc	cccaaacaca	cccccagtc	cccgcccgca	ggcttcctgc	aggatccccc	23940
agtgcacctg	ggggctgagg	agagtgagca	gggcgcaaag	aagcttcgtc	gggagggcgg	24000
tccccacccg	ccttggaccc	ccggggatag	tgtcctgggg	cctgggctca	gatggaccct	24060
gggaggaacg	gtgcgggggc	tgttttttgc	tccaagagga	cattgcctca	gcagagggct	24120
gccgagctgg	gaggacccac	agtgcaaggc	cgcacaaacc	cctaggaagc	ctcagagcct	24180
tcaggttccg	ggctgaggct	gtgggcgtgg	accettgtge	aaaccccact	ggaagaaaaa	24240
ccttacagct	caggaggagg	ggccccaccc	gctcccagag	cccgtaaacg	aggggtggtg	24300
cccacatgag	gcctggggaa	gggctggggc	tgggacaccc	cctcaccacc	cccagatacc	24360
ccaggcagcc	cctccctcca	cagagagacc	cactgggcct	gaccctgccc	tgggcacagg	24420
gtcgagccag	ggacggcccg	tgggagaaag	acggcttcat	gggccgctgg	ccgggccagg	24480
tgcgtccttc	cccagttcta	ggtggcaaat	ggggtggggc	cagagccttc	tggctaggga	24540
agacactggc	ctggttggtg	tggcaggggc	agcgaaggag	ggtcaaaggc	cactctggcc	24600
tggaagagtc	cccagccacc	tggacggggg	tagccaggcc	tggtccctgc	ccccactctc	24660
caaggggtcg	gggcagccgg	gcagagccag	taagtgtttg	ttttcagatg	acatttgtaa	24720
agaaaaacag	cctcccacac	tgcttgaccc	tgtgtctgga	atgtggggag	gcaaacagct	24780
gtgcccttcc	cagaccctgc	acagcccctg	gtgggggcag	ggccctggtg	ggagcagggc	24840
ccagaggtac	agcctgggga	ggcaccggcc	attgtggttg	gagcgcggca	gccaggctct	24900
gggctctgtt	ccgggcctca	ctgtgtcccc	agtggggtgc	cgccaccacc	cccccagcct	24960
gggccccgcc	ggtcagacac	ccgcagggac	agcttgtctt	ggctagctgg	ctacagcacc	25020
tcgctggagt	ccagcagaca	cgcgctcccg	tgcgcacgct	gcgccccagg	ccagccctaa	25080
cgccgctgct	cgggtcaggc	cccccgcctg	ccgtgggctg	ctggctgcct	tggcccgccc	25140

cagetetete egegeeeetg eetecaggga geceteeteg aggaetecag eeacecaage 25200 25260 tcagcagggc cagcccgagc ccctgcccca cccagcctgt gtggagggtc ctcagccccc tgatececca gacecteceg geagaagetg ggteeetggg gettggggaa ageeggetee 25320 atggccctg gcctggatga tttcccagag gccggtcccc tgccaagtgc ctggtgaccc 25380 25440 ttgttcctac ctggctgccc atggtccttt gtgcgacccc cgcccacagc ccaggagctg ggcaggagac tetgattggg tggcagcaga gccatectag gggtgcccet gaccetggce 25500 ctgaccetge cetggageet egtttecaaa tettgeetea tgetttegee agacceetgt 25560 ggeceettee egaceetgga gtgeceetgg ggetteetgg aaagggeete teetttgete 25620 25680 acagttgggt gccgaacttc accagcattg accacccgaa ggcgcaggga cacccccgca gtecetetee tgggggteee ateaceaact ceceatggge gggatateag aagaatte 25738

<210> 37

<211> 40558

<212> DNA

<213> Homo sapiens AF087017

<400> 37

gatcaggtca gactgcagta gggcaggccc tgaatcaaac atcatggtgt cctcacaggt 60 120 agaggagagg cacgagagag caacgctgcg tgaaggcgca ggatgagagc atcctggaag 180 atgggcacgg ctggggtgac aggtctggga gcctgggaac actgggaaag tcggccagca 240 ctggagcete cettagaget egaagaagga gecageeetg accaeeeega etetgaeett ctagcatcga aacagggaga gacgcattcc acgtggttgt tccaatcagc ccagtttctg 300 gggcttcctt atggcagcct cagggaactg gcaaagccca agtgggctat cccattactt 360 420 atatctgggt aggtcccagc cacaggggag agaaaagaga aagcccctct atctaatgac acgctgtact catgtcccac ccgcatgatg tgccgtaccc gtgtccctat ccaggtgacg 480 tgccgtaccc gtgtcccacc cgggtgacgt gccgtacccg tgtcccaccc gggtgacgtg 540 600 ccgtacccgt gtcccacccg ggtgacgtgc cgtacccgtg tcccacccgg gtgacgtgcc gtaccegtgt cccacceggg tgacgtgccg taccegtgtc cctatccagg tgacgtgccg 660 720 tacccgtgtc ccacccaggt gatgtgctat gcccatgtcc cacccaggtg acacgctata 780 cctgtgtccc tatccaggtg acacgctgtg ccatgtccct atccgggtga cactgtgcca tatccctatc caggtgacac acagtgctca tgtgtctatc tagatgacag caccgtgccc 840 900 acatetttat eeeggtgaca geactgtgee caegteetgt ettggtgaca teaetgtggt tatatacctg tccatgtgac atcactgtgc ccacatctgc ctccaggtga cagcgctgtg 960 cccacatccc cacccaagtg ctctgggcac cttggctggg gctctggcca ctttcatgtt 1020

ggtgccaccc	tgtgtgtgga	tcatagcacc	caggcactca	ccattaccgt	ggccagcaca	1080
gaccagaccc	gaccccagta	gtcctcaaaa	ctaggtcccc	tgctgggtgc	ggtggctcac	1140
gcctgtaatc	ccagcacttt	gggaggctga	ggcgggcgga	tcacaagatg	aggagatcga	1200
gaccaacctg	gctaacacgg	tgaaacccca	tctctactaa	aaatacaaaa	aattagccgg	1260
gtgaggtggt	gggcgcctgt	agtcccacct	acttgggagg	ctgaggcagg	agaatggtgt	1320
gaacccggga	ggcggagcct	gcagtgagcc	gagatcatgc	cactgcactc	cagcctaggg	1380
gacagagcga	gactcaaaaa	acaaaaaaac	aaacaaaaaa	aaactaggtc	ccctgtgctg	1440
tgctgctgta	ccccagcagt	cgcttcactg	gcaagactac	tcttagcagg	tgcgcctgga	1500
agcagaaact	cggcagctcc	cggtctgtcc	tatacacatg	caaatgcccc	attagaaagc	1560
aaatagcccg	aggtgtttgc	ctgctcccag	gcaaaatctc	ccaaatcttc	ctccgggaat	1620
cagtgaacag	aagagatgtc	catcaccccc	aggagagtag	tgtctgaacc	cgtctaaccg	1680
cccaacaggt	tctccctgcc	gccggtctgg	acagagctgc	tttatcacaa	caggtgactt	1740
gcaataaagt	ttaattcaca	cagagtcggc	cgtgcaggag	accagagttt	tattattact	1800
caaatcagtc	tcccaggaaa	tttggggatc	aaagttttta	aggatcattt	ggtgggtagg	1860
gggcgagtca	atagggagtg	ctgattggtt	gggtcagaga	tgaaatcatg	gagagtcaaa	1920
gccatctttt	tctgctgagt	cagttcctgg	gtgggggcca	caagactaga	tgagccagtt	1980
tatcaatctg	gggggtgcca	gctgatccac	ccagtacagg	gtctgcgaaa	tatctcaacc	2040
actgatctta	ggttctgcaa	cagtgatgta	atcctaggag	caatttgagg	aggttaaaaa	2100
tctttcagcc	tccagatgtg	tgactccatg	actcctaaac	cataatttct	aatctgtggc	2160
taatttgtta	gtcctgaaag	tctagtcccc	aggcaggaag	agggtctgtc	ctgggaaagg	2220
gctgttattg	tctttgtttc	aaagataaac	tataaactaa	gttcttccca	aagttagtcc	2280
agcctgcacc	cagaaatgaa	taagaaggca	agacagagtt	ggttacgtca	gatctctttc	2340
attgtcataa	ttttctgtta	tatattttt	tttttttgag	acagagtttc	gctcttatca	2400
tccaggctgg	agtccaatgg	ctcgatcttg	gctcactgca	acctccacct	ccggagttcc	2460
agtgattctc	ctgcctcagc	ctcccaagta	gctgggatta	caggcgccca	ccaccatgcc	2520
cagctaattt	ttgtattttt	agtagagatg	ggatttcgtc	aggttggcca	ggttggtctt	2580
gaactcctga	cctcaggtga	tccacccacc	teggeeteee	aaactgctgg	gattacaggc	2640
atgagccacc	atcgccggcc	gattttctgt	aataatttt	gcagaggcgg	tttcaccagg	2700
agaaccaagc	attaatgcgc	tgtggctgat	gtgtagtaga	gcggcatttc	ccaatgggag	2760
aaccctgggg	ctgtctagga	gcccatgcat	ggctgggagc	ctaatcccag	ggacaccacc	2820

gatgacaget eccatageae gtaggacagt ggataettgg aggeaaagag aaatetetgt 2880 2940 tetgeagtgg teatgacttg gaccecaaag aacttgagee caaggteeag agggagacee 3000 teccaacaag geetecagea ggaacaggga tegtgggage etgecaagea cagegeacag 3060 gtatttctgg aggettccca ttcagtcttg gatgccagcc tcaccaaggg cggcccatct 3120 tgctgacctc accaagggag gcccgtctca ctgccctgat ggcgcagaat cggctgtacg tgtggaatca gaagtggccg cgcggcggca gtgcaggctc acacatcaca gcccgagcac 3180 3240 gcctggctgg ggttcaccca cagaaacgtc ccaggtctcc caggccaggt gccgcattgg ttcccgaggg ttgtcagaga tagacactca tgcgactaac atcgggctat gtgtttgatt 3300 caccccaggg tgcattgttg aaggttgggg agattggagg agatgcttgg gggacaatga 3360 ggtgtcccag ttccttggat gatagggatc tcggcctaag cgtgagaccc ctcctacagg 3420 gtetetggca ggcacagage etgggggete ttgcatagea catgtgtatt tetggagget 3480 teceettegg teteacegee eegatggtge agaateggtt gtagttgtgg aateggaagt 3540 ggccgcgcgg cggcagtgca ggctcccaca tcacagctca agcccgcccc agctgaggtt 3600 3660 caccegegga aacgteeegg gteacgeaag etaggtgeeg caaggtteac gggggtagtg agggatagaa cactcatggg agccacattg ggctacgtgt ctgattcacc ccagggtgca 3720 ctattgaggg ttggggagat gagatacttt ggtgacaatg aggtgtcccc attctttgga 3780 tgatggggat ctcggcctca gcgtgaggcc cctcccacag ggtctctggc aggcacagaa 3840 3900 actgggggct cttgcgtagc acatgggtat ttgtggacgc ttccccttct gtctcaccac ccggatggca cagaatcggt tgtaagtgtg gactcaaaag tggccgcgcg gcggcagtgc 3960 aggeteacae ateacageee aageeeteee tggatggggt tegeeegegg aaaegteetg 4020 ggtcacccaa gccaggtgcc gcagggttct cggaggtctt ctgggaatag gacgctcatg 4080 ggagccacac cacgtetteg tategggeea tatecaegge egegtggeee eaggteaeae 4140 4200 tetgaggget teagtgteat ggeetgggae teaagteaeg eetaeeegeg tgatgageae 4260 agcaaattcc aacaaaagct tatactttcc acatccatcc cagagcacag atccgactaa ggacagecee caaateeega geetttttet gaactgacaa ttgeeteece agtgaacaet 4320 4380 ctgagcttgt caatcttaag tggccagaca ttaacattcc cattcagtgc aggtttgaga tgctaattta ggagcttgag atgctaaaga gctgggagtg ccactgctgc tttattctgg 4440 ggtctaggat ccttgtgttg gctgagataa tctgctaatg tgggtgcagc agacatcccg 4500 cggtttgtgg aatcgataaa ggatggggat caatggtgtt tgtgcactgt gcggtctgtg 4560 cccaattgcc tgccttgtgc tgtggaatct gtacacctgg ccaacatgtg cttgtgtgag 4620 cetgacagtg cattttccag agectcacet eggetetgee etggaggete tgtgetgetg 4680

4740 gaatcagact caaggacctc atcagaggac catggccccg tatcacctgg gtcaggcact 4800 gaagctggga caggagagca gagacttcca aaatgaggga tccctgtgtt ctgaggtgat 4860 catgactggg acccaaggac tcaagcgcat gctccagagg gaatcgtttc ccacaaggcc 4920 tttggcagga acagggatcc tgggagcctg ccaagcagag cgcacagtgt tcctggagtc 4980 tegetgeeca gatgeeaegg aateagttga aggtatggaa acacaggtgg ceaegtggta gcagggcagg ctcaggcgtc atagcccgag cccggctacc tgtggtttgc ctgcagaaac 5040 5100 atcccgggtc aacaggccag gcaccgcatt ggttcgcgag ggtcatcggg ggtaggaccc 5160 ttgtacgage cacateggge taegtgeetg atteaceeca gggtgeactg ttgaaggttg gggagatgag aggagatact tgggggacag tgaagtgtcc ccattctttg gatgatgggg 5220 5280 atcteggeet cagegtgaga ecceteceae agggtetetg geaggeteaa gageecaggg getettgeat ageacatgaa tatttetgga ggetteeeet teagteteae caeceggatg 5340 5400 gtgcagaatt ggttgtagct gtggaatcgg aagtggccgc gtggcggcag tgcaggctca 5460 cacatcacag cccgagccca ccccagctgg ggttcgcccg cggaaacgtc ccgggtcccg caagccaggc gccgcagggt tcacgggggt catcagggat aggacattca tgggagccac 5520 5580 ategggetat gtgtetgatt caccecaggg tgcactattg agggttggga agatgagagg agatgcttgg gggacaatga agtgtcccca ttctttggat gatggggatc ttggcctcag 5640 5700 ggtgagatcc ttcttgcagg gtctatggca ggcacagagc ccgggggctc ttgcatagca catgtgtatt tetggagget teecetteag teteacegee eggatggeae ggaattggtt 5760 gtagttgtgg aatcggaggt ggctgcgcgg cggcagtgca ggctcacaca tcacagcccg 5820 5880 agecegeece agetggggtt egecegtgga aacateecag gteatecaag eegggegeca 5940 cagggttcac aggggtcgtg aggtatagga cactcatggg agccatatcg ggctacgtgt 6000 ctgattcacc ccagggtgca ctgttgaagg ttggggagat gggaggagat actaggggaa caatgaggtg teccagttee atggatgatg gggatetegg cectagtgtg aaaccettet 6060 cgcagggtet ctggcaggca cagagecegg gggetettge atageacatg ggtatttetg 6120 6180 gaggettete etteggtete acegeetgga tggcacggaa ttggttgtag ttgtggaate 6240 ggaagtggcc gcgcggcggc agtgcaggct cacacatcac agcccgagcc cgccccaact 6300 ggggttegee egtggaaaeg teeegggtea eecaageeae gegtegeagg gtteaegggg gtcatctggg aataggacac tcataggagc cgcaccagat cttcaggtcg ggcattatcc 6360 acageceegt ggeecegggt cacaeteega gggetteagt gteatggeet gggaeteaag 6420 6480 tcacgcctac ttatgtgatg atcacagtgt gttccaccaa aatcttacat tttccacatc

6540 tateceagag cacageteeg acteegteta aggacageee ecaaateeee ageettttae tgaactgaca attgcctccc cagtgaacac tctgatctcc tcagccctaa gtggccagac 6600 6660 attaacatte teatteaatg caggtttgag gtgetaatte aggagettaa gatgetaaag 6720 agctgggagc gccactgctg ctttattctc tggtccagga tccttgtgtt gctggagata atccattate gtgggtgcag cagacaccet geggettgtg gacteggtae ggggtgggga 6780 6840 teetgatggg gttaggatgt tegatggete gggtgtgete caegeteagg gateateaeg 6900 teeggeegge ggtagttgge aegtggagag gtgaatttge ceacaggtgt teecegtgee tgegeattge tggeageacg accggatect gtgetagece etcecacaat geetggagea 6960 7020 ggagcgaggg gcctggggag ccgccttgcc tggagcattt gtatttccgg agtatttcct gagtetecce ttgggtettg ggtgetgtee ecagtgagee cateteccag egatggeaca 7080 7140 gaatcggttg tggctgtgga gacggaaatg gccgagaggc ggcagtggtg actcacatca 7200 cagtetgaag gtgacccaag getggactee acttttagea aaatgtgggg gtetgeettg 7260 gtctcctaac ttgggggtcc actcatggaa aagcctgaga attttcatgc catggaaatt ccccatgtc gtggggttca cgcacgacaa agcccggcgg tcagtgctca gcaggcaagc 7320 actcagccct ttccggtggg gccatgggaa cagagggttt gccgaaggcg cggccagccc 7380 7440 ttccacatcc cagagggcct gctgcgtgat tggacccgtg aactctgggt cccttggccc tggtgctccc cttcacggct ttgacactcg agacttgagg tgaaccccag ggactgcagg 7500 gccccaacaa ccctcaccaa aggccaaggt ggtgaccgac ggacccacag cggggtggct 7560 7620 gggggagteg aaactegeea gteteeacte cacteecaac egtggtgeec caegegggee tgggagagtc tgtgaggccg cccaccgctt gtcagtagag tgcgcccgcg agccgtaagc 7680 7740 acagecegge aacatgeggt etteagaeag gaaagtggee gegaatggga eeggggtgee cageggetgt ggggaetetg teetgeggaa acegeggtga egageacaag eteggteaac 7800 7860 tggatgggaa tcggcctggg gggctggcac cgcgcccacc agggggtttg cggcacttcc ctctgcccct cagcaccca cccctactct ccaggaacgt gagttctgag ccgtgatggt 7920 7980 ggcaggaagg ggccctctgt gccatccgag tccccaggga cccgcagctg gcccccagcc 8040 atgtgcaaag tatgtgcagg gcgctggcag gcagggagca gcaggcatgg tgtcccctga 8100 ggggagacag tggtctggga gggagaagtc ctggaccctg agggaggtga tggggcaatg 8160 ctcagccctg tctccggatg ccaaaggagg ggtgcgggga ggccgtcttt ggagaattcc aggatgggtg ctgggtgaga gagacgtgtg ctggaactgt ccagggcgga ggtgggccct 8220 gegggggeee tegggagge cetgetetga ttggeeggea gggeagggge gggaattetg 8280 ggcggggcca ccccagttag aaaaagcccg ggctaggacc gaggagcagg gtgagggagg 8340

gggtgggatg	ggtgggggt	aacgggggaa	actggggaag	tggggaaccg	aggggcaacc	8400
aggggaagat	ggggtgctgg	aggagagctt	gtgggagcca	aggagcacct	tggacatctg	8460
gagtctggca	ggagtgatga	cgggtggagg	ggctagctcg	aggcagggct	ggtggggcct	8520
gaggccagtg	aggagtgtgg	agtaggcgcc	caggcatcgt	gcagacaggg	cgacatcagc	8580
tggggacgat	gggcctgagc	tagggctgga	aagaaggggg	agccaggcat	tcatcccggt	8640
cacttttggt	tacaggacgt	ggcagctggt	tggacgaggg	gagctggtgg	gcagggtttg	8700
atcccagggc	ctgggcaacg	gaggtgtagc	tggcagcagc	gggcaggtga	ggaccccatc	8760
tgccgggcag	gtgagtccct	tccctcccca	ggcctcgctt	ccccagcctt	ctgaaagaag	8820
gaggtttagg	ggatcgaggg	ctggcgggga	gaagcagaca	ccctcccagc	agaggggcag	8880
gatgggggca	ggagagttag	caaaggtgac	atcttctcgg	ggggagccga	gactgcgcaa	8940
ggctgggggg	ttatgggccc	gttccaggca	gaaagagcaa	gagggcaggg	agggagcaca	9000
ggggtggcca	gcgtagggtc	cagcacgtgg	ggtggtaccc	caggcctggg	tcagacaggg	9060
acatggcagg	ggacacagga	cagaggggtc	cccagctgcc	acctcaccca	ccgcaattca	9120
tttagtagca	ggcacagggg	cagctccggc	acggctttct	caggcctatg	ccggagcctc	9180
gagggctgga	gagcgggaag	acaggcagtg	ctcggggagt	tgcagcagga	cgtcaccagg	9240
agggcgaacg	gccacgggag	gggggccccg	ggacattgcg	cacaaggagg	ctgcaggggc	9300
teggeetgeg	ggcgccggtc	ccacgaggca	ctgcggccca	gggtctggtg	cggagagggc	9360
ccacagtgga	cttggtgacg	ctgtatgccc	tcaccgctca	gcccctgggg	ctggcttggc	9420
agacagtaca	gcatccaggg	gagtcaaggg	catggggcga	gaccagacta	ggcgaggcgg	9480
gcggggcgga	gtgaatgagc	tctcaggagg	gaggatggtg	caggcagggg	tgaggagcgc	9540
agegggegge	gagcgggagg	cactggcctc	cagagcccgt	ggccaaggcg	ggcctcgcgg	9600
gcggcgacgg	agccgggatc	ggtgcctcag	cgttcgggct	ggagacgagg	gtgagttttt	9660
ccccctctgc	caccctcagc	ccccacccgc	ccctccccac	acaaccaaca	cgttctcccc	9720
acacgactct	ctcgttctcc	ccacagccag	gtctccagct	ggggtggacg	tgcccaccag	9780
ctgccgaagg	ccaagacgcc	aggtccggtg	gacgtgacaa	gcaggacatg	acatggtccg	9840
gtgtgacggc	gaggacagag	gaggcgcgtc	eggeetteet	ggtgagcgtg	tctgccctcc	9900
ctgcgtcagg	acgcggccct	gcccagaccg	ccccgccggg	ccaccatctc	actgccccga	9960
cctctgtctt	ctacagaaca	ccttaggctg	gtggggctgc	ggcaagaagc	gggtctgttt	10020
ctttacttcc	tccacggagt	cggcacacta	tggctgccct	ctgggctccc	agaacccaca	10080
acatgaaagg	tgaggggctt	cctgccacac	ttggggtggg	gggcacgcga	gaggagctga	10140

gtgggacete acteetteee cateeacaga aatggtgeta eecageteaa geetgggeet 10260 ttgaatccgg acacaaaacc ctctagcttg gaaatgaata tgctgcactt tacaaccact gcactacctg actcaggaat cggctctgga aggtgagcac cagcgctcct tccggaagcc 10320 tecaggeece egageacect geocecatee cacecaegtg tegetatete taggtgaage 10380 10440 tagaggaacc agacctcatc agcccaacat caaagacacc atcggaacag cagcgcccgc 10500 agcacccacc ccgcaccggc gactccatct tcatggccac cccctgcggt ggacggttga ccaccagcca ccacatcatc ccagagctga gctcctccag cgggatgacg ccgtcccac 10560 cacctccctc ttcttctttt tcatccttct gtctctttgt ttctgagctt tcctgtcttt 10620 cettttttct gagagattca aagcetecac gactetgttt ceccegtece ttetgaattt 10680 10740 aatttgcact aagtcatttg cactggttgg agttgtggag acggccttga gtctcagtac 10800 gagtgtgcgt gagtgtgagc caccttggca agtgcctgtg cagggcccgg ccgccctcca tetgggeegg gtgaetggge geeggetgtg tgeeegagge eteaceetge eetegeetag 10860 10920 tetggaaget eegacegaca teaeggagea geetteaage attecattae geeceatete 10980 gctctgtgcc cctccccacc agggcttcag caggagccct ggactcatca tcaataaaca ctgttacagc aatttgtctc gaggactctg gaatccgggc tgtgggcatg atgtggggga 11040 11100 ggccagcctt gggcagaggg gggctggggg gcatggggag gagtacatga aaagggggat gggggttcca gggtgggga ttetgggatg ggtgcagcgc agcacacac aggggtgggg 11160 tgagcacagg gtgtgtggac ctcaggggtg cagggcaggc ggtcagcatg cagtgatggc 11220 agtggagggg ctgtgggacc aggggcttca cagactgggc gggggctggg cttgcggagg 11280 11340 gggcctgcgc tctgaggcag gggtcgggga ccaccaaacc atccccgagc gagtgcctcc 11400 tgtcgcccca aagtcccatc agaatgacgc cttggtgctg gccccagacc cctgaagccc gggctaggtg actggggtag agctggccat ggccgctctg ggaggcccac aaggtgctct 11460 gggcgacccc accccgacag gggcacgaac cccgcgccag tcccgttcct gctccccttt 11520 11580 tgctgtgggt gggagccggg gccacgccgg agggacggcc ccacacaagg agccaggggg 11640 ttgtggggga geeggtggge tteteagtgg geaggtggee ttgggggeaga ggteetaagg aggccagggg accaggagga gggaggaaga agttgagggt tgccacaggg aggaggtgag 11700 11760 gaggageggg agggeecagg gtgagggget ecegggetee eteecegggg tettgetget ggagetecaa gaacceeggt atgeaggggt tegetececa ggtgecaagg eageceacte 11820 11880 atgggttccg ggtcagcttc cccgcagagg ccagtggccg gcagctccct cagccaggcc 11940 teccagetee eggeeeeteg etgtgeagge getgggaaca caaggggeag eeeetggaaa taagggtggg gtcccggcct ccccattcct tcccccctcc cccctgcctt ccacccccat 12000

tcccagtgca	cagagctgtc	aggaaaattc	ctccccgact	gacaaagaac	agacaggaag	12060
gcggttaggg	acgcccctcc	cctaccggcc	cagccgccct	tggggtcttg	gtgtccaggg	12120
cggaagagca	gggtggttcc	ccacgtccct	tgggtctggc	ctcccctctg	caccctctct	12180
tgccccctcc	ccatccagct	gtgggccctg	gggactgtca	gagaccgagg	ggtttccagg	12240
gacacacttg	tgtgctaaaa	cctgggcggg	tggtcacccc	ccaggatgca	tgtagacatc	12300
cggtgaggga	gtctcttgaa	gtctctggga	tggtgcccct	gggactggct	gccatctcat	12360
ggaggaggtc	agaggtcgct	ggggccagcc	cagggtgagg	ccgcattcat	cttcctgacc	12420
ctacaggcca	atttgactta	cccaagtggg	ttttggccgg	caggatgaag	taacccatcc	12480
attacatgtc	aagagttagg	tctataaacg	gcctttatta	taaacatcca	actctgcagg	12540
aggtttacaa	agcagggctc	aggagataaa	agccggcttc	cccaggtggc	ggctgcaggg	12600
tgcggcaggc	agccccaggg	gtgcccaggg	tggcggggca	ggggaaccgt	agggagggg	12660
agaggggcac	ccagaaaacc	tctcctggag	aacatggaag	actctgccca	cttcaaatcc	12720
ctgcctgggg	aaggacacat	gggaatgggg	ccgggggaaa	aggcgggcca	cctcgggcct	12780
tcgtcacctg	tgtcagctcc	tagggattgt	ctcctcctgg	tcacttggag	agaacaggcg	12840
tgctggacac	gtccacatct	ctgggcccgg	ggtgtatgaa	tgacacgctt	gctctggagt	12900
ttccacctgg	gagctgtatg	gggacagggc	tgttcctcct	cacacccgct	ggggaaggga	12960
cacaggcctc	ttggtggccc	ccaccatctc	ccagcactgc	ccatggctgt	gcccacgctg	13020
gctgccccct	gagagcagga	cgtgtactca	ggggcagcgc	ctacctctgg	gcagcccagg	13080
tttctctgct	ccctgcagcg	gaacgggctt	cctagggcag	ttcctggggt	ggtgtcccta	13140
gggcagcccc	tgagtgctgg	agggggtctg	ggccacaggc	cctgaaacag	ggaggtggtg	13200
ggggcagcgt	tcagggggct	gaacctcagg	gtgaggcggg	caggcgggga	gccacaggcc	13260
cgggggcccc	gcagcaggtg	ctcagcctcg	gagcctcctg	ccgcaccccg	gggcgggggc	13320
tgggagcccg	cccgagcccc	tagctctgag	cgacctgcca	ggttggaatg	tgtgtttatc	13380
tttggcccaa	cccgatttcc	tgctttttag	aaaaggggct	tagagagggt	tgttagacag	13440
gctccaggca	ccccaacacc	caaaggcact	ttgaaaacgc	ccctgcactg	acttcagtgc	13500
ggagaagcaa	acgggctgga	atttcactcc	caaaccccaa	catgggggtg	gcggggccgg	13560
ggtgagggtt	gtggctgcct	gcaaaggtgc	caggaaatct	ggggagggag	gaacttccac	13620
cgttcaggga	gaccctgagg	gtgccctggc	ttctggccac	gtcccagacc	ctgttaggca	13680
ccgaggtctt	cacacccaga	ccctccaccc	acccaagttt	ctgcggcacg	tttaggttga	13740
gtgaagacca	agtcatccag	ttagagaaga	ggacttgagg	cgcgtgctgc	tgctgtggcc	13800

acgctggacc	ttcggtgcac	gcatctcctg	gcgagtcccc	tgtggctctg	tgggccgtac	13860
acacccgggg	cacgcgacct	cagctacctt	gtcaccgagg	acgtgcatcc	acagctgtgc	13920
gtctgtgcct	gggagcgggg	tctccacttg	gtgggtctct	gcatgctgac	cagttaaccc	13980
gcctttccgg	gctgtggagg	gcgtgggtcc	tgtccggccc	ggagatgctc	cgcggggtgt	14040
gtgtgtgatc	gtggccctgt	agcggggtgg	tgttccctgg	agggtggacc	cctgagcctg	14100
gctgtgtgtg	gctcgtgtct	cagcatgaat	tccgtgaccc	aggagcacgt	tttcaggcag	14160
ggattagggg	cagctgggtg	tgggaggcag	gcacttggta	taccaccgaa	tggagacaga	14220
aaatcccaac	tctacgaagg	aagtgaagtc	ccttcaacag	ggacaaagcg	atgttttggg	14280
tctgactaca	atgcaccctg	ggaagtctca	aagaaaacag	tcggggactc	aaggagggca	14340
gcccctctc	cccgaccccg	agctcccagg	aagataaatg	atttcctcct	ctctagagat	14400
gggggtggga	tctgagcact	cagagccaag	ggcgcagtgg	gtccgggcgg	gggcctcctc	14460
ggccctccca	acatgggggc	caggaggtca	gcccctcaac	ctggaccccg	gctgggtctc	14520
agggaatggt	ctcccccagt	ggcccagctt	gcttgtgttt	tcagatgggt	gtgcatgggt	14580
gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgatgcctg	acaagcccca	14640
gagagccaaa	gacctgagtg	gagatcttgt	gacttctcaa	aagggggatt	ggaaggttcg	14700
agaagagctg	tggtcagcct	tgctctccct	taaggctgtg	gtaaccacac	taggcatagc	14760
ataggcctgc	gcccgtccc	tecttecete	ctccgcgcct	ctcctttctc	tttctccccc	14820
ctctaccccg	ctccctggcc	tgctcctggt	gacaccgttg	gcccccttcc	agggctgagg	14880
gaagccagcg	ggggcccctt	cctggaagcc	cacctgcagg	ccggcttgct	gggaagggc	14940
tgctctcgca	gaggeteeeg	cccgccctgc	agccgtttcc	tggaagcagt	cgctgtgggt	15000
attctgttcc	ttgtcagcac	tgtgcttgca	aagaaagcag	acactgtgct	ccttgtcctt	15060
agggagcccc	gctccatcac	ccaacacctg	gctggacaca	ggcgggaggc	cgggtccgcg	15120
gggagcggcg	cggggctggg	gccggaccag	taaacacaca	cgggcgccag	gcactgcagg	15180
ctcctcctcc	tectectgee	cagegeetet	gctcacaggc	acgtgccaag	cccctaggcc	15240
aggaggccca	gcagtgggtg	cagagcaagc	tcctgggaag	ggggtgcagg	gcggaccccc	15300
ggggagaagg	gctggcaggg	ctgtggggga	cgctgaccgt	.gggccccacg	ttgcagaaaa	15360
ctggctgcct	ggctggaaga	tgggggagat	gccaagcctc	tgaggcagca	cgagcagggt	15420
gcatggaggc	cggggcgcgg	ggaggctgca	ctgcagcatg	caccccaaag	cccagaggga	15480
gtggagacca	ggccctggaa	tcgagaagca	gaaaggcggc	ttggaggcct	cggaaccggc	15540
tgacctccaa	cagagtgggg	ccggccctgg	aggcaaagag	gtgcccgggg	tccggccctg	15600
cctgggggag	ctatgtgtca	tgggcagcca	caggatatgt	agccagctct	gagcatatgg	15660

acccagggca	gggctgcaag	gcagggcagg	ggagacagac	gggggagcaa	ggagcagaga	15720
gggggcctca	ggctctccca	ggaggaacat	tctcccgaca	ggaggaagag	acggcccagg	15780
ggtgactgtg	gggagccatg	gtggcagctg	gggtcgtggc	agatgggaga	gaggctggcg	15840
aggtgaaggt	gcaggggtca	gggctctggg	gcccacatgc	ctgtgggagc	aggcaggccc	15900
agggctctcc	gccactcccc	actcccgctt	ggctcatagg	ctgggcccaa	gggtggggtg	15960
ggatgagcag	gagatggggc	ccagggggca	agcagggccc	caaagacatt	tagaaaaacc	16020
ggtttatgca	ggcagcattc	agagcaggcg	gcgtgcgtgg	cgggggccct	gggagcacag	16080
agaggcacac	gtagggcccc	cgaggggctc	cccattggcc	ggcagtgaca	tcacccctgt	16140
gtgtcaacag	tgatgtctgc	agctccggcc	agccagggtt	tatggagcga	gacccagccc	16200
ggcctgggcc	ctcactcccc	aggcccacac	actagcccac	tgttcagggt	ccggggtggc	16260
ggcatggcct	gggggtcctg	gcaccgctgc	tcctctgccc	accctaactt	cccggcatgg	16320
cggctgcccc	ctctgagcgt	ccccaaccag	taagtgtggg	gccagcaggc	ctgccgtcct	16380
cctcctcttc	cctctagaga	gaaacgtgga	ggtcctgggg	ctgggggcgc	tcatagccct	16440
gtgacacagg	tgcatggggt	caggggtccc	agaatggccc	ctgggaagga	cctcagctgg	16500
gccggcggct	ctaggcttca	ggggtctgtc	tgcacagggg	ctagcccctc	ccagacctct	16560
gtgaagccag	tacgggcctc	ccctccctgc	cccgtgctct	gtccggtgct	tcctggactg	16620
cactgcgggc	cactggtgag	agggtggaca	gggaagggcc	gccgtggtgc	ctgttcctgc	16680
ccacctggct	gtgtggtccc	ctccaagtag	ggacaaccct	tctgagggct	tgggggcacc	16740
ctggggttgc	cagggcctcc	cagagccctg	tgagcccctg	gggggtctgg	cctgatgccc	16800
ccctccacgt	ccagggccgg	ctgtggccca	gaaccccagc	ttcccagcag	gccggtgtgc	16860
ggtggtgacc	cagaggaggc	ctcgcctcca	ctgaggggcc	accgacctct	gccaggccac	16920
agagaccccc	aaaggagtct	gaaaggctgg	agacccgggg	ctgggaccag	gtgggacttt	16980
cccacggagc	cgtccccagg	cccagctggg	gacacgtccc	ccttctctcc	agacacaccc	17040
tgcctgccac	cacgacacac	cggcctgttg	ggggtctctt	ttaagtgctt	gccactctga	17100
ggtgactgtc	cctttccaaa	gaggtttctg	gggcccaggt	gggatgcgtc	ggcctgagca	17160
ggaggatctg	ggccgccagg	ggctggggac	tgtctcctgg	ggaaggaagc	gcctgggagc	17220
gtgtgtgctg	acccaggacc	atccagggag	gcccgtctgt	ggggcaagcg	ggaaggagc	17280
ggctggagag	gcttggccgc	ccccgccctg	cctcccattc	cttagctcca	tgcctgtcaa	17340
cctctgtcac	ccagtgagtg	atgtccaggg	gccctggaaa	ggtcacagca	tgtttgagcg	17400
gggtgagaga	gaggggaaag	gcgggggcgg	ggaaaagtac	gtggaggaag	ctctaggccc	17460

aaggaaggag	aaagggttct	gggagggagg	gagccactgg	ggccgccggg	aaggtccctg	17520
cctgctgctg	ccacccagaa	ccctcgcctc	ttagctagcc	cccgcagccc	cagcctttct	17580
ggcctgtgcc	cctctcccc	atccccagct	gtcctgtgca	accaggcctt	ggacccaaac	17640
cctcctgccc	cctcctctcc	ctcctcaccc	tcccaatgca	gtggtctcca	gcctggctct	17700
gccctgccgc	agtcccctcc	cctcattcca	ggcctagagc	ctccagtccc	ggtggccccc	17760
agcccgaggg	tgaacggcct	caccctgggt	cgtgggacag	agggcacgtt	catcaagagt	17820
ggctcccaag	ggacacgtgg	ctgtttgcag	ttcacaggaa	gcattcgaga	taaggagctt	17880
gttttcccag	tgggcacgga	gccagcaggg	gggctgtggg	gcagcccagg	gtcaaggcca	17940
ggctgtgggg	ctgcagctgc	cttgggcccc	actcccaggc	ctttgcggga	ggtgggaggc	18000
gggaggcggc	agctgcacag	tggccccagg	cgaggctctc	agccccagtc	gctctccggg	18060
tgggcagccc	aagagggtct	ggctgagcct	cccacatctg	ggactccatc	acccaacaac	18120
ttaattaagg	ctgaatttca	cgtgtcctgt	gacttgggta	gacaaagccc	ctgtccaaag	18180
gggcagccag	cctaaggcag	tggggacggc	gtgggtggcg	ggcgacgggg	gagatggaca	18240
acaggaccga	gggtgtgcgg	gcgatggggg	agatggacaa	caggaccgag	ggtgtgcggg	18300
cgatggggga	gatggacaac	aggaccgagg	gtgtgcggga	cacgcatgtc	actcatgcac	18360
gccaatgggg	ggcgtgggag	gctggggagc	agacagactg	ggctgggctg	ggcgggaagg	18420
acgggcagat	gggatcccaa	ggacatggaa	tttcggacct	tctgtcccca	ccctctctgc	18480
tgagcctagg	aacctctgag	cagcaggaag	gccttgggtc	tagagcctag	aaatggaccc	18540
ccacgtccac	ctgcccagcc	tagaccccca	gcattgaagg	gtggtcagac	ttcctgtgag	18600
aggaagccac	taagcgggat	ggacaccatc	gcccactcca	cccggccctg	cccagccctg	18660
cccagtccag	cccagtccag	cccagccctg	cccttcccag	ccctgcccag	cccagctcat	18720
ccctgcccta	cccagcccag	ccctgtcctg	ccctgcccag	cccagcccag	cccagccctg	18780
ccctgccctg	ccctgccctt	cccagccctg	accttcccag	ccctgcccag	cccagctcat	18840
ccctgcccta	cccagctcag	ccctgccctg	ccctgccctg	ccctgcccag	ccctacccag	18900
cccagccctg	ccctgccctg	cccagctcag	ccctgcccac	cccagcccag	cccagcccag	18960
catgccttct	ctggctggag	agcacaggct	tgaccttaga	aagaggctgg	caacgtaggg	19020
ctgaggccac	caggccactg	ggtgctcacg	ggtcagacaa	gcccagagcc	tgctcccctg	19080
ccacgggtcg	gggctgtcac	cgccagcatg	ctgtggatgt	gcatggcctc	agggctgctg	19140
gctccaggct	gccccgccc	tggctcccga	ggccacccct	cttatgccat	gaaccctgtg	19200
ccacacccac	ctctgagctg	tccccgctcc	tgccgcctgc	accccctgag	cagccccctg	19260
tgtgtttcat	gggagtctta	gcaaggaagg	ggagctcttc	aatcttgcca	gtcagggtgc	19320

tgtctgctga gtaagtgtcc ccgtgctgtg ccccaatgtc cccatccttt ggcaaacagc 19380 catcagcctg tggatcctgc actcccatgc ggtgggagag ggagacctgg gctcacctga 19440 gcctccccac aagccaggga gagggctgc ccaatggcgg gaggccccca tggatcccaa 19500 19560 acggcagttg cccgcactcc tacccaggaa ctttgtctgt gatgaacagt aaggaataag 19620 gaagcgggtg agaaagaagg aaggaaaggc ggtgggggc atggcggggg gcggggaggg tgtttggaaa gttccagaaa agagtcactt caccagaaag gccacaagct ccccgtgccc 19680 19740 ccagccctg ctcggctccg aggtgaagga cttggagcgt cgacgctggc gtggggacca getgttetee ttgagtttgt tteetteagt teetteeggg eeteaceete etetteetge 19800 19860 cacacacaca cttttttcct ttttaaattg ttttatttgg ggccaggtgt ggtggctcac acctgtaatc tcagtatttt agaaggccaa ggtgggcaga ttgcttgagt ccaggagttg 19920 gagaccagcc tgggcaacat agtgagaccc catctctacc aaatatcagc caggtgcggc 19980 20040 ggcgcgcacc tgtattccca gctatgtggg agactgaggt gagaggatca cgtgagccca 20100 ggaggttgag gctgcagcaa gccatgatca taccactgca ctccagcctg ggcaagagag tgacaccctg tctcaaaaaa aaaaaaaagt agaaaaattt attttaaaaa attgttttaa 20160 catttgagtg ctacaactgt ccaaggagga gcagacggcc cgtgtcagac agcctgaagc 20220 ctgactgtct gcgatcaacg gccccgtgcc agctgtgtgc agcagtttgg cctggcctga 20280 20340 tgeetetgte ettggeacca geteacagee egtgeecata acagacetgg ggeacegaag 20400 gaagggcaga tecageeece acetgeeetg ggtetgaaga teteecagga ggetecatgg ggtgccttga gtgggagggg ctggccgata gccttgagga attggcacgg acatgcagag 20460 aggggcatgt cccaaactcg gggcgctgtg gcctccagct gccaggaggt agatgtgttc 20520 20580 tgacttctgg gttcccacca ccagaactgc aggggatatg aagcaagctg gacttgggga gacatetetg etegagtgea egttggeetg atgaegaetg etettgggtt caegggttee 20640 20700 aggetetgee egggageete atgeaaactg gteeegttet acagaegagg aaactgagge acagagtgat tacggctgtc cctgagctcc tgcagccagt aaggtgatac accaggatgt 20760 gttcccaggt tgtccgctgg gctcagtaac acagtctcaa ctgccctgtg acactgcgtg 20820 tetgtgettg tggggaaggt gaccagagge cecettteet ceaegeggtg ageetaceag 20880 20940 caaggagaca gtcctcaggt gtgaggatga gcctcgtagt aggcacagag aaacaggagg aaccttctgg aaggtgaagc ctcccacggc tgggactctt ggagaagggc ggatctctgt 21000 ccactcctgc ccaatcccca gcacagacag agcaagcagg acagagggcc caacgtccca 21060 ggatactgca gagctcaaag gagggcagag agcatcgccc cacatgggcg ccgggagaaa 21120

ggtgggcggg	gtgctcaggg	gcccctggcc	gtcctgaagt	ttgcctcaga	gaggtgtggg	21180
cttctcctcc	ctcccataca	cagtgtctct	gaggatgaac	tgccatgtgc	ccggcgggga	21240
tgccgtccct	ggcccttgct	gagtgcctct	gggacgaggt	cagctgagcc	tgccatccta	21300
actcagacac	catctcactc	tccaagtccc	ttctcggtga	gacggggggc	cttgcaccca	21360
cctcccagcc	cccacacacc	tgagggggtc	cccgttcccc	taccccgtgg	ctccaccacg	21420
ccccacgcat	cctacctgag	ggacagaggg	gactgtgaga	tgcccccac	aggctggttt	21480
tcctctttct	cccataacag	gcccagcaaa	ttctcacctc	cagaggccag	gtctgccccg	21540
tcaggtctta	ggaaatacag	ccctacttcc	atccagcaca	ccaacccaag	gaagtgcctc	21600
ggagccctgg	ggcccgaggg	gggcctggcc	ttggtctcac	ggcggcagct	ccacctggag	21660
aggagtgaac	tcaagccagg	acgccccgtc	tccacagcgg	aaaccgtgtt	geeggetget	21720
ccctcctggg	gactctgggc	ctgaggttcc	tgtgggagtt	ggggggatag	ctgagtccta	21780
tggaggtgcc	cctctcctcc	ccgcccagtg	gagcttgggg	tggggacagg	cgaagacagg	21840
gtgagaagca	cggggcattc	cccctccaca	cagcgctgag	aaagtaaggg	agcatccaga	21900
aaacggtgcc	cacttccgcg	tcaggcggat	atcacgggca	ccagctccag	gtgaccctag	21960
cccagccaga	gaacaaggac	caggttgtgc	cgcaaagccc	gtgtccgctc	cctcccgcct	22020
gggaccactg	tggcgagggg	aagggagcgt	ggtggccctc	tcctgactcc	tgaggcctga	22080
agtccaagct	cccggccctc	aggcaggcca	gggtctagac	accgctgccc	caaacacacc	22140
ccccagtccc	cgcccgcagg	cttcctgcag	gatcccccag	tgcacctggg	ggctgaggag	22200
agtgagcagg	gcgcaaagaa	gettegtegg	gagggcggtc	cccacccgcc	ttggaccccc	22260
ggggatagtg	tcctggggcc	tgggctcaga	tgcaccctgg	gaggaacggt	gcgggggctg	22320
ttttttgctc	caagaggaca	ttgcctcagc	agagggctgc	cgagctggga	ggacccacag	22380
tgcaaggccg	cagaaccccc	taggaagcct	cagageette	aggttccggg	ctgaggctgt	22440
gggcgtggac	ccttgtgcaa	accccactgg	aagaaaaacc	ttacagctca	ggaggaggag	22500
gggccccacc	cgctcccaga	gcccgtaaac	gaggggtggt	gcccacatga	ggcctgggga	22560
agggctgggg	ctgggacacc	ccttcaccac	ccccagatac	cccaggcagc	ccctccctcc	22620
acagagagac	ccactgggcc	tgaccctgcc	ctgggcacag	ggtcgagcca	gggacggccc	22680
gtgggagaaa	gacggcttca	tgggccgctg	gccgggccag	gtgcgtcctt	ccccagttct	22740
aggtggcaaa	tggggtgggg	ccagagcctt	ctggctaggg	aagacactgg	cctggttggt	22800
gtggcagggg	cagcgaagga	gggtcaaagg	ccactctggc	ctggaagatc	cccagccacc	22860
tggacggggg	tagccaggcc	tggtccctgc	ccccactctc	caaggggtcg	gggcagccgg	22920
gcagagccag	taagtgtttg	ttttcagatg	acatttgtaa	agaaaaacag	cctcccacac	22980

tgcttgaccc	tgtgtctgga	atgtggggag	gcaaacagct	gtgcccttcc	cagaccctgc	23040
acagcccctg	gtggggcagg	gccctggtgg	gagcagggcc	cagaggtaca	gcctggggag	23100
gcaccggcca	ttgtggttgg	agcgcggcag	ccaggctctg	ggctctgttc	cgggcctcac	23160
tgtgtcccca	gtggggtgcc	gccaccaccc	ccccagcctg	ggccccgccg	gtcagacacc	23220
cgcagggaca	gcttgtcttg	gctagctggc	tacagcacct	cgctggagtc	cagcagacac	23280
gcgctcccgt	gcgcacgctg	cgccccaggc	cagccctaac	gccgctgctc	gggtcaggcc	23340
ccccgcctgc	cgtgggctgc	tggctgcctt	ggcccgcccc	agctctctcc	gcgcccctgc	23400
ctccagggag	ccctcctcga	ggactccagc	cacccaagct	cagcagggcc	agcccgagcc	23460
cctgccccac	ccagcctgtg	tggagggtcc	tcagccccct	gatcccccag	accctcccgg	23520
cagaggctgg	gtccctgggg	cttggggaaa	gccggctcca	tggcccctgg	cctggatgat	23580
ttcccagagg	ccggtcccct	gccaagtgcc	tggtgaccct	tgttcctacc	tggctgccca	23640
tggtcctttg	tgcgaccccc	gcccacagcc	caggagctgg	gcaggagact	ctgattgggt	23700
ggcagcagag	ccatcctagg	gctgcccctg	accctggccc	tgaccctgcc	ctggagcctc	23760
gtttccaaat	cttgcctcat	gctttcgcca	gacccctgtg	gccccttccc	gaccctggag	23820
tgcccctggg	gcttcctgga	aaggcctctc	ctttgctcac	agttgggtgc	cggacttcac	23880
cagcattgac	cacccgaagg	cgcagggaca	cccccgcagt	ccctctcctg	ggggtcccat	23940
caccaactcc	ccatgggcgg	gatatcagaa	gaattctctg	cgcaggtgct	ccgccccttc	24000
aggcacaggg	gagggcggct	caggggccaa	cggcagacgt	tggtgcctgc	ccctgcagcg	24060
gggtgcccca	tgctgagaca	gcacacacgg	gggacactcc	gggcctcggt	ccaccctcca	24120
tgtggcaaat	gaggtgcttg	gcggggcttc	ttaactcttc	accctgggct	ccccacgggt	24180
cccttccctt	ccccttgggg	gccccggccc	caggtcccca	aggcctagac	ctgcctctgc	24240
caccctcaga	gcaaggatgc	gctgcagagg	gagaggggct	gcagctcggc	cccagagctc	24300
cggcttcctg	tctcccagac	cacaaatcac	taaaggccgt	gggtcctggg	acattgaagg	24360
cccaggaagc	tccttgtgtt	gagttaaaca	tagcggagca	gaggcatgga	gctggcattt	24420
cccacgctta	cgaccactgt	gctacgggct	ggggtggggc	tgggaatcag	cttcccctgc	24480
gccccgccat	cccttgtcca	gagggacccg	tgggaaggcc	aggttgaaga	gttaagaagc	24540
cccgccgagc	acctcatttg	ccacacggag	ggcggaccga	ggcccggagt	gtccctcttg	24600
cgcactgtct	cagcatgggg	caccccgctg	caggggcagg	caccaacgtc	tgctgctggc	24660
ccctgagcca	ccctcccctg	tgcctgaagg	cccagcactt	ccagggctgc	ccgagctgag	24720
gacctgtgca	gagaactctt	ctacacccca	cagaggaggc	tgaggggtcg	aggcggctgc	24780

gggagcccca	gggggccacc	acacagccat	gcctgcccct	ctcctcggtg	ggtgtagaaa	24840
gctcttaaat	ggtggaaaaa	caagggcatg	gccacattgc	acaggcacag	aaggttccag	24900
aaggagtgaa	acaatggcat	ggagggagca	gagcctgggc	cggtgggggc	acagggatga	24960
ggccagtgaa	ggccacgggt	tggggggtgc	cctgaagcca	acgaccccat	ccttatcgcc	25020
tgtgtctctc	tgcacacagc	gtctcgtctg	caaagttagc	tgagcaaacg	ccaggagcca	25080
agggtcgagg	caacgatatc	cgtggggcca	ttccacaccc	ctttgcctgc	cccatcaaga	25140
cctgctttcc	tggttgaaat	ccaactcacg	atttgccccc	ggggcccagc	agccctaccc	25200
aatggagcag	ctgcacccac	agtgcccagc	ttcccaggcg	gacaggggct	tggtgagcct	25260
tectgtecce	actggagcat	ggccggagtg	attttctgct	tctgctgcag	atcaccctgg	25320
tgggagcagc	tgtaatcgca	ttatccccag	ttatgcctcc	actgggcact	ggggtaggga	25380
caggactgcc	aggacacgat	tccatttacc	taacgccagt	ggagccctgg	gggctctcct	25440
aggtccacgg	ggaggggtgg	ccatctctct	aggcccaggg	accccaggac	aggggtagaa	25500
aaccacggga	gagttaagga	gttaaggcca	gaaggggcca	gtccggccaa	gtggggcaaa	25560
gctgtccacc	gttgggcagg	gcacgactga	ggggcggtgt	ggggaacagc	tgctcatctc	25620
ccccaggccc	atgcccgtga	tgaactgtgt	gactaccccc	aggatcagtc	aggaagcttg	25680
gcccaggagc	ctgtgcagac	ctaacagcca	gctccagccc	cgaggcaggg	cagctgtgct	25740
ccagagggct	cccggggccg	cactgtccct	cccaggtgga	caccctcgtg	gcacgtacgc	25800
ccctgctctc	agccctctcc	ttcactggat	gaagagactc	gggacccgca	gaggtgggtg	25860
gcgggcagag	gaggtggagc	tggtctgaga	cgcaagacgt	ggcctgtgga	ttctaggagc	25920
aactggtggc	ttccaaggtc	ccccacccac	tccacacatg	ttcccaaacc	ccgttttgca	25980
gatgaggatg	gcaggctcag	cacaggggcc	catgtctctg	tcaccaggca	aggtggggg	26040
gctctagggc	cagaatcgct	cccacctcca	gccggggatc	agaggtctct	ggttagcagc	26100
cgaggcgagc	gggacacagg	ctgagggatg	gggacagctg	ctcgcccggc	acagacaagg	26160
ctcccctccc	catgctggag	accccggctg	ccccatcagt	cacggcccac	ccaggaccat	26220
gcaatcatcc	tccacttctc	ctaatcctcc	tgccagcttc	ttcccaagag	tccaagcagt	26280
tggatgcatt	ttctaaattc	tcaggccact	gctgtttcct	cctcaaattc	cttgtccccc	26340
acccgtggcc	ccctcccagc	catgggaaag	gactgctgcg	gcctccccac	aggcctgtgc	26400
acgggtgggg	ctgcgtccag	gcagctgtga	ggtaccgggg	acccaggggt	aagagccccg	26460
attacagggg	cgtcatggga	aagtggcgag	gggaggccac	ccagggcccc	caccacagcc	26520
cegetecaca	tectecectg	atctctggcc	ctggaaagaa	tcagatggga	ccccagcag	26580
cagtcacttg	agtcccactg	ccaccggctg	tgctgaggat	gcccactggg	ccgtgctgtg	26640

gccacctggc	ttgcagtgtg	ggcaccaagg	tatcggccca	gattcctacc	catcagagca	26700
ccagcacagg	gccgagccag	tgccacagag	cccctgggct	gcagcacgtc	ctgcacgtcc	26760
cacagaccgg	cctgccggga	gggaggggtg	ctgcccaggg	ctcggtgccc	tcccggaagg	26820
ggcttcagtg	gggctgtttg	ccaggtggtg	gctctgacgc	aggagaggac	agatgggcag	26880
agcccgaggg	cagccctggc	caggtgcgta	cagtggtggc	tgtgacgccc	tctcccacgc	26940
ctgtctctgg	gtccaggagg	agtgatgatc	tccaggctcc	agaggactag	gaacagcagg	27000
caggctcgct	gctgataacg	gggacttctc	cacctggtgg	ggagtgatga	ggcaagaccg	27060
gatggcaggc	cccaggcctc	tcctctccag	ggacagccat	catctcctcg	cctgtgcagg	27120
tctcaatcag	tcagtgatta	acgcaaccag	caaccagcac	tttattgccg	gttgtgaaga	27180
tctggaggac	atgcgggtcc	ccggggccac	agccttcccg	catgggtgag	cagtaagctg	27240
tgcaattagc	cctcaggccg	tcatcgccag	gccctgcctt	tgttcctcca	cctgccgccc	27300
gccggaagcc	tcccacaacc	tggccagcct	gctctttctc	cccctccact	ctgacccctt	27360
cctcctcagg	gccctgacat	gcagctatct	ggcacccagt	ttcaatacct	ttttctttct	27420
tttttttt	ttgagacaga	gtttcactct	ggttgcccag	gctggagtgc	aatggctcga	27480
tttcggctca	ccgcaacctc	cgcctcctgg	gtccaagtga	ttctcctgcc	tcagcctctg	27540
agaagctggg	attacagaca	tgcgccacta	cgcccagcta	gttttgtatt	ttttgtagag	27600
acacggtttc	accatgttgg	tcaggctggt	cttgaactcc	tgacctctgg	tgatccaccc	27660
acctcggcct	cccaaagtgc	tgagattaca	ggtatgagcc	accgagccgg	gacttctttt	27720
cttttctttt	tctttttcc	agccctcaac	tatccgtttc	attaaaaaat	tcagaattct	27780
ctcccctgcc	tgccaggatg	ggacccaaaa	ctcgggcaat	aggcctgccc	gagttgtggc	27840
cctgggcctg	tccccgacaa	gtcaccctac	gttttccatt	ccaccatcct	ctctctgcac	27900
ctcaagcacc	gtgaaccctc	tcccacctgc	ctgacctcgc	cgtctccaaa	ggagaacctt	27960
tcttgtgtca	tecegecete	tctaggcccg	ccgtctgcct	gggggctgcc	ctggtggctg	28020
tgctgtgtct	cccactgctg	tgcgcacggt	gctgcctgct	ctttgcctca	gaggcactgg	28080
agcccatgtg	ctcggggggg	tgtggccttc	gaacactgtg	agtccccaca	tcttgcctcc	28140
agaggccaca	gctggcctgg	gccaagcctg	ggccacttcc	tctgcagtga	ccaagagcag	28200
ggctgcctcg	agggtttcgg	ggcaggagag	agggaacaaa	tctcctggag	gcagatgggg	28260
gccacaggga	ggctggaggc	ctcgaacccc	tcccagagag	ccagtggagg	gatgctgcct	28320
ggcagatggg	agatggcagg	cgggtgctcc	aggggctcct	ccctccttgt	agcaccttgg	28380
acatgttttg	ttttattatg	gtgaaaatat	gtaacaaaac	tagccattat	agccattgag	28440

ccactgagcc	actgagccac	ggagccacgg	agccatggag	cacacacatc	agtggcactc	28500
agtccattct	cactgctgcg	cagccatcgc	caccatccac	ctcagacctc	ctccctcttc	28560
ccaaactgaa	gctccctgaa	ggtgcccagc	ctccttgcca	gtagatgaga	tggggaggca	28620
gccctgctcg	accaaggagg	cagaagtctt	gattgttctc	cctacagtcc	cacgggaagc	28680
acctgcagca	gggccctggc	tggacagacg	gccacaaggg	gtgtggtgca	gtgatcgggt	28740
gccctggcct	gggcaggaga	gtggcgccct	tggcctgccc	agcccctgcc	tgcggcccgc	28800
ctgacagcca	aggggagctt	caccttccag	cctctggctg	tcattagctg	ctcccggtgg	28860
gaggtgggac	cggcagggga	agctcagtcc	cacagccagt	gaggatccag	gctcaagcgg	28920
aaccacctgg	acctcattat	tcttaagtgg	tccagtctga	aagtttggga	agaggggagg	28980
aaaaaactgc	caatccccag	gcctggggag	ccccaccccc	tcttcaagcc	agcactgaag	29040
ccctgggggt	ttcagccaca	atggagagct	aaaccgggcc	caccccaggg	cccaggaggg	29100
gcatctgtag	agggttcagc	cccaggagga	cttggaggtc	aggcaagcca	acgggagttc	29160
agagcttagg	aggggtgaga	ggtcagactc	tggtcctttc	tcatcacctg	gggtccgtct	29220
gtccttccag	gtcacctggg	ctgtctacag	tcaaggccag	tctgacaggt	gggatggtgc	29280
ttcccagcaa	ccccaccctg	aggagaaccc	tgctgcctct	ccctgctctc	cacccccagc	29340
acaggccccg	ggaageetee	agctgatgac	gacaccagga	tggtgctgag	tggaccctgg	29400
ggccagcatc	acaaggcacc	caggacccca	gaccacccag	ccacacccca	ggctacgagg	29460
agggggcgct	ccggcgaggc	tggggtgcct	tcaaggtgca	tcctagcaac	atcctccacc	29520
tgcaggaggg	acactcggtc	acagcttggg	gaggatgtgc	tcagacggca	taggaaggat	29580
ttgctcagac	cccatgggga	ggatttgctc	agaccccgtg	gggaggactt	gctcagaccc	29640
catggggagg	acttgctcag	aacccatggg	gaggacatgc	tcagaccccg	tggggaggac	29700
atagaccccg	tggggaggac	ttgctcagac	cccgtgggga	ggacatgctc	agaccccatg	29760
gggaggactt	gctcagaccc	cgtggagagg	acatgctcag	accccgtggg	gaggacatga	29820
tcagaccccg	tggggaggac	ttgctcagac	cccgtgggga	ggacatgctc	agaccccgtg	29880
gggaggactt	tgctcagacc	ccgtggggag	gacttgctca	gaccctgtgg	ggaggacatg	29940
ctcagaaccc	atggggagga	cttgctcaac	ggcataggaa	ggatttgctc	agaccccatg	30000
gggaggattt	gctcagaccc	cgtggggagg	atttgctcag	accccgtggg	gaggacatgc	30060
tcagaccccg	tggggaggat	ttgctcaggc	cccatgggga	ggacttgctc	agaccccgtg	30120
gggaggattt	gctcagaccc	cgtggggagg	acatgeteag	accccgtggg	gaggatttgc	30180
tcagaccccg	tggggaggac	ttgctcagac	cccgtgggga	ggatttgctc	agaccccagg	30240
caggcatcat	gaatgcgccc	agcccggacc	ccagactggt	agctcctacc	acacgcggag	30300

cagcagaggc	tggcaagagg	gactcaggac	ttgggctggg	gacagagggc	cctgcacagc	30360
tetggggtee	tgacccaatc	ctgcatttcc	atagagagct	gcctgggcac	ccatgctgag	30420
ggtccctgca	ccccctggtg	tatcggagac	ccttccccca	cccctatcc	cccgccactg	30480
agacacagga	atgtacagga	tggctgtgag	ggcagaggca	ggcccagggc	gcagcaggca	30540
gggctgggcg	gggctgggga	tctgcaggag	gttggccctg	gagatgggac	atgtctggac	30600
cctcggtgtc	atcacctcta	tgttttgacc	actgagcaaa	attacactaa	atgaagcaca	30660
aattagccaa	ggggacagtc	gactctgtcc	tttcttctta	atccctctgg	ctcagggttt	30720
cccagcctgg	acagcctgtc	cgaggggaag	gctgcccaag	ggcacacggg	catcggtccg	30780
gggacattca	ggcagtgacc	aatccctggc	caccctggtg	tgtgcccggc	aatgtgggcc	30840
ttttcccaga	cagccagtgg	gggagcggct	gctgtgggtc	cctgagtctt	agccagatgg	30900
tcaaggatag	gacaatgatg	gagacccgca	tgcggccgca	tccatgggta	aaggaggcgg	30960
aacggaggac	agctctgcca	tcccctcagc	cagccatgaa	aagcaaccct	ttcccctaag	31020
gccccagcac	caccttggag	gccaccatgg	gctggagccc	agcacagcca	ccatcgcatc	31080
ttggctgtcc	agctcaggac	ggccagttcc	aaggcgtcca	ggctggagct	ctgggggcgg	31140
aagagcacaa	gctcctgaag	agcctctggt	ccagccctgg	cagcggaggg	ccaggtgaga	31200
gcctgttgag	ggctctgagg	actccaggag	ggactggctg	aggacaccgg	tgggggtaat	31260
acctccccct	ccaatggccg	ctcgcaggag	gcaattccca	gagccccgct	ccatgggcca	31320
ccaggtaccc	agagcctcat	ttagaaatgg	ccatgcctcc	ccacaggccc	ccgctgggat	31380
cctggtgctt	caaatgtcct	gctgtggtcc	cagggaggag	caaaaccccc	tcccagtcag	31440
gaagcatcct	caaccgcatc	taattccaga	tgctacctcc	caccttggct	ttccaggaga	31500
cggagaacgg	ageeggeeee	tctccaaggc	cccgaggccc	ggcagggcac	ccctcggagc	31560
agataagctc	acccctgctc	ccaggacaag	caagctcctg	ctgaggctct	gctactgcta	31620
attggccctt	gggataagca	gacctgtcca	ggaaagaacc	ctctccctga	tctcctggcc	31680
ccagccccat	ccggccggga	gttctgactt	aagcaaataa	tcagtccagg	gaattggagg	31740
ctcaacagaa	tcgtcctcca	ggaatctggt	cttcgttcct	ccaccctcct	cctcccgtct	31800
ccgcccgggg	tcttgagatc	aacagcaagg	ttttgcactc	gtaggggctt	cccggagaca	31860
ccctccagcc	tcaacccaga	ggagatgggt	gcctgggccg	tgacccctca	cacaagagga	31920
ccaagcccag	agaggagacg	ggaagccatg	cgcccggcca	gctggggtct	gcgatggact	31980
cagtggggtc	cagccctcct	cactccaagg	ggagctggga	gccgacccgg	tgagggaggg	32040
catcctggga	aagtgacagg	aatcagggaa	tggccctggg	gctccggacc	tcctctgatg	32100

gagtcattca	aggcccttgg	cagagctggg	catcctctgg	gccccaggga	ataaggtccc	32160
ctcactccac	cacagaacag	catctgggta	cctacctgtt	ggccatgggc	agagcaaaac	32220
tctctcctgg	accccagtgc	ccagagccct	ggccttggga	gggagctgtg	catcctcagg	32280
agcccccccg	ggctgcccc	caccaccctg	caggcagctc	accctcccac	cccaccagct	32340
gcaggtgcgg	acacgtgtct	tctccttccc	caaatgctcg	ttctgcacct	gcttcgggag	32400
ggcagtcctg	cctgctcaca	gcccagccct	gcccgaactc	ctggccatgt	gtggaaacac	32460
acgggcgtta	gaacatggca	tcccggttcc	cttctatgtt	caggaagacg	acacccatct	32520
ggctgagggg	atggcagagc	ccctctcccc	acagccccct	ctgcagtgca	gctctccttt	32580
cctctccccg	catgcctctt	cccgagggca	gccccttctc	tccatcagga	tcgcatgcct	32640
cttctcgagg	gcggcccctt	ctctccatca	ggatcaccct	tcctgggctc	cggggtgcaa	32700
cgggcgggcg	ctgtttcccc	caagccctcc	cttcctccct	cggggtgggg	ccctttcctc	32760
caggctcttc	teegteteet	ggtctctgcc	atctcccaaa	acccattcta	tttctccaca	32820
tgtctacctc	gtcccccatc	cgtctccatt	ctcctagtct	cccgcctgcc	agcccggccc	32880
tggcaccagc	cacttggcag	cctcctcctc	ctcctcccag	aaccttctct	ttccttcctg	32940
gtcccatctc	aaactgcagc	aagctggtcg	aaaggtgaga	ccaggctggg	aggagctgtg	33000
ggccacggag	atggtggccg	ggggaggtat	gggaggtggg	agggcaggcg	ggccaggtgg	33060
ggagcagggc	atcttgccat	gggaagggct	ggaggaaaca	ccgcatccag	ggatggccag	33120
agctcgcctg	gagcccctga	aggtcttgct	tttagagccg	ggtggggctg	ctgtgtggcc	33180
aagccgggcg	agtggcccca	tcccgggtcc	tgggctcctg	gcgtctgccc	tggagcccac	33240
catgttgcag	tactgtgtgg	ccgtccattg	ctgctctctt	cactgtatga	ccgggggttc	33300
cctctgtgcc	cctcaaagcc	ccaacttgcc	tggactttgg	gtctgcagct	ggcgcatggg	33360
aatcttccca	catggcagcg	tagggtgact	atggagccga	ccaaggctgc	caaggtctta	33420
cttgagtaga	agacttccat	cctgagcgat	cctgttggcc	ggtcctccgg	atccagcctt	33480
cctgggaatg	cggccaccca	caggactcca	agcgggtctg	gggtctctgg	tcccccaggt	33540
tgaccacccc	ttgctgcagc	tgctccggaa	acagagggtg	ctgccctggc	cattttgctc	33600
cttgctgggt	gtctgggagg	gctgcgaggg	gaggaagaag	ggcagggaga	ggtgagagac	33660
ccgagagaag	ggggaaggag	tctcaaagga	ggggagggac	ggccggccag	cactgtggcg	33720
cagtgtgcag	gaggggaaca	tggcggtgcc	cggcacgagg	tggggtgcgg	ggcagccctg	33780
gagccctggc	tgcctctccc	agcagtgggt	ccggcactag	ctagccagct	gagcttgctg	33840
tgtttggagt	ctgcagaaag	tgctgccccg	ccaagcccca	caggccaagc	caggcccgag	33900
ggacaggaag	gagcatgggg	ccttcactca	ctgcccagcc	cggggcacgg	ccggcccatc	33960

teceatttee agggeeatee ggggaaeggg caegeeeegg ataettaetg eeetgteaet 34020 ggaggttagc atcctccctc gtccggtgcc ctgcccaggt ggctgttacc tcccctacct 34080 cetecaagae eetgageagg gggagaaaga aagtggacag aggeaeeega eeteetgaee 34140 tgagtgtggt ccccgctttg ttcccccttc ctctgccccc agttctcact gcgaaggagg 34200 agagggetea cetggggtgg ecceaegtge etgecageet tggtecaaga etgeagagaa 34260 gggtccctga ggaggtgggg agaacccaga ggcagatcct gagggtcttc cctgaaagag 34320 gagggctggt gggcagcagg aagatccggg attgtgccct cagctgccct ctctgtcctg 34380 acgtgtcacc cgctaagggt catgggccaa ggagggaacg ggcaatgtct gggagccata 34440 gagttgggat ggcccggcca ggctgggtgt ggggtctgtt ggggatccca ggtgagggga 34500 aggaattggg agtggacetg ggcccgaggc aggttgggtg gctggtgcaa ggcagagggc 34560 tggccccggg ggcattctgt cctggttcct ctgtcccctc acccagttcg tgagcatccc 34620 34680 tcgtggagca ggccccaggg agatcacggg cggcgggtgg gcagatggag tgcaatatcc cccaaggaaa gtgtgttgtg aggtggtgga gggcagggcc ggagaggccc cagctgtgga 34740 geaggaeget ggagggetea gggeageega geeagggeee ggggeageeg caaagtggea 34800 ctgtgttctt ttgggccgga ccagagccca ggcagtgtca ggaggtggat ggtgtggaag 34860 agagaggagt tecaggggeg caetgggggg ceetetgtgt ggetggaagg tggagggeg 34920 ctgggtggaa gggctggctt cgggctggcg gcttgggcta aggcaggctt gcaggggctg 34980 gctcctgaac ccacgcatgg cgagaagtat gggctggagc ggccacagca ttggggaaag 35040 35100 acagatggga gggctggaca ggaagcaggg ctgtggccag gccggggccc cgggaggaca gggacgagtg gtggacgtga gggtgcagag gagcaaagtc caggacttgg cccggatcgg 35160 35220 gatgeteagg aggetgggga tgeteggagg aaageaatgg gggageeegg etgeetgeee 35280 cacccetgee acceteaget cettetgece gecaggacte ceaggeteca teaggtgeeg cagcaccetg getgegacat aacgaggtgg gacagggtca gcaaggtgac ttetegtgee 35340 ccagtgtttg caaatcccca aaatgaccca acagacaagc tcgaggctgg attttccaag 35400 agggcccctt caagtaccaa aggacacaaa gagcaggccc ttctgagtct gcggcccaca 35460 gatggcagca cgggccccgg accccaggac caccttgggc acagagcggc tgggcccagg 35520 35580 aggetggeet etecegggga teceaegget ggeetgeggg getgeageaa acaegtgeag 35640 ggctttccag agccccgcac agaacaaaga acaaaatggg gagagcaggg cctgggctga acggaccacg ggcgggtggg cggaggggca cagcggcatg gcacccactg ccaggccgag 35700 ggcagctgca gggggctggg ctggagcaga cccggggtgg gggtgggggc tggaggaggc 35760

tctcacggcc	ggaatcaata	actcacactg	ggggagggcg	ggagacgttt	gtggcggagc	35820
ggggaggggg	tgccggacag	ggtgtccctc	cacccccaag	ttcaaagttt	tatggcgagc	35880
aggcttgact	tcctcccgcg	tccctcctct	ccaggtgtta	tttgaaaaaa	atacttttca	35940
aactacatgc	tgaaaacttc	agcatgaaaa	tttaatgtca	gaaactctgt	aatctctttc	36000
ccagagataa	gacccagccc	ctcgaggagg	ggcgaactcg	atccctctaa	cacagaaagc	36060
agacgccagg	ccgggaaggc	aggggcctgg	cggcctcgct	gggggaggct	caggctcacg	36120
ctccctccct	ccctcccacc	cgcggctggg	agggggtgac	tgagagaggc	cctgcagggc	36180
tggagctgca	gggctggggc	gaggggtccg	gcaggagggg	ccgtcctagt	gcagcctgca	36240
ggcttcgggc	cttcgggaag	cacatcctgc	cgctctcccg	cgtgcacccc	gctccccgga	36300
acttggagtg	ggtgccgctg	ctgccaaggc	tcgggtttcc	atgacggctg	aggcccctgg	36360
ccctctcact	cagaccctaa	cttaggcctc	gctgagggct	caggttgtgg	acagctaagc	36420
tggggaagga	caacgtggcc	accaccgccc	acggcctttc	tgaccggcag	cgccgccctg	36480
ggttgggtgg	cgggggcgtc	ctgcacacac	gactcctgag	gtcaagcctg	ggtgtggggg	36540
tcttggactc	tgagctgcca	ggcccgccgg	gtcctggcct	cagggagagg	ggaacggagc	36600
tgccacacac	ccggctcttg	actcgatttc	tctgtggggg	acagacataa	cttctccaag	36660
ctgtttccaa	cagcccccac	cctgaagacg	gcctccacct	cagacatcag	acaacgcccc	36720
gagccccccc	tgcccagggc	cgggagggca	ggctgcccgg	aaggagggtg	gggctgcccg	36780
ggggctgggt	gtgcgctcca	gacctgtgtt	ctgggactgc	attccggggg	agggggtggt	36840
gggaaggcgc	catgtggagc	aaaccggctg	ggctgggggc	aggaggcccc	ccaagcgggg	36900
agagggaggc	gtccgaccga	ccgcactgct	ctgctgcccc	caccaggcag	gccgaggccg	36960
gcatccccgg	agaccgggac	ctggtggccc	agcccagcac	tcctgaatga	gcctgaggcc	37020
cccgtgtcct	gagaggcagg	gggctccctc	ctttgtagcg	gaaggagaca	gaggcctcct	37080
aaaggggccg	gacgcctgcc	caaggcgcta	gtcgcctgga	agctcccaga	atgtgggtgt	37140
gggagaggcc	aaactgcttt	ctccccaaac	cccaaaatcc	tgggtgaccc	tgaacccggg	37200
cctgggcact	tggccctgtc	tgcccaagcc	ccctaccggc	cccccatgt	gctttgcgtg	37260
gtccgagccc	agcgggtggg	gcagggctgg	cttgaggctg	ccgagagggt	ttctccccaa	37320
ccgtcctgcc	ccctccaggg	gacatgcaga	gccagactgg	tctgttgtcc	tgtgtttgcc	37380
tgcctctccc	ggtgttgccg	tggtgatgac	acaccaggca	tggctgggag	gggtcatacc	37440
tcaggcagac	caagagtcct	gcgtgtccac	cacagacggc	accccctcag	gatgcccacg	37500
ccctggcccc	cggctcccag	gccttgtcga	gaatgttcca	tgagcctgac	ggacaggcac	37560
gaggtccagc	gtgtgaggcc	caggccgctg	ctccggcgcc	tgcccttgca	tccccacagc	37620

acccegecca gecacectat etgteetegg ggteeececa geegteteag gteeaggetg 37680 37740 ctgggtgtga gaagegeect gggtttetge tgtgteeetg eeeectgaeg aggagegett 37800 ctetteetge acceacagee ceacacagee ectecacgee ceagggteee ceagceaace 37860 cagegteeta tetgetgett geagetgage etgeggeggg ggaceceagg caaatatgag gaageetggg cagaaggtgg eeeetgeaga agetgetgee caegtgeeee egeeeeatge 37920 tgccaggaga ggctcggacc tcaacaactt gggagtggca gaaatggtct ctgcatgacc 37980 38040 agtgcggccc cttcttagcc ccttcctggg gcttccggag ggcctagcag cttccctggc 38100 tgggggetga ggggcetecg ggeggegaet ettggaaaag eetgaggtea gaagagttea gaaacggccg tgctggctgg gtcctcttga ctgatgtgga caactgtgtc ccatctccct 38160 38220 gagetattte tgttttegea ggagteaggg gagggetgga acteeggett eeeggeatee cggcgggcaa ccagataccc tcagataaag ggcattcctg gaggccttca tcacgctccc 38280 38340 egggeagetg etggeeeete accetgeaca agtgggeaeg teeteeetga geeeegaggg 38400 aggeteggaa cacatagttt eeetgttatg taccagetga ggggeeeggt ggatttaget ggggtgaggc ccaggggccc aggcgagcag gggatgttct cgtagggagg acagggctga 38460 38520 gatgggaaga gcagctggtc ctaagcccca cagggccccc ccacagggtc ccctcagggc cccgagcctg ggttttattt tgggaggcac cttctagagt gtaagctgcc tcatcccgcg 38580 ggcacgcgtg gggtcgccca ggacctaggg gatccttcag ccggctgtcc agctccggga 38640 38700 ctctgggttc ccgggaaccc ttgggggctg atgttctgag catgtttgct ccgcagtgtt ctcagccaca cctgcaccct agcaggatgc cagagggctt ttcccagact tcagagctga 38760 38820 ggcccgggcc tggcgggcgc cccctcctcc agcaggacgg gaaccaacca ttcactcaag 38880 ccacgagcac cccacgggct gccctgaaga gctgttggga ggagagggtc catgatccca 38940 ggctctgaag acctctgtgc ccagcagcgg ggcctctgga gggtgaggag ggatgcgtat 39000 gcagcagcac agagccccgg ggcagctgac ctcctgaagc caggcagggt gcctgggcag 39060 39120 ggccccaaaa ccacagagga gccccagcca gccctctggg gagcagggtc aggcaccccg 39180 acagagggtg accaggacac acgacccggc ggccctgcag cccccagca cctcctcact 39240 ggggaccagc ctgtcggcag gaggcagccc tgggggtcgg ggacacagtc ccaaggaagg ctaggacctg gaacgctcct taagggggtg agacacccct ggggggcaga gctaggccct 39300 gaccagggtg gggactgcgg aggagctgag ctggctccaa tcggtgcatg gctggctgtc 39360 39420 taggggcage acagagggag gteccatece aggecageag tggcaatgee atetetgaaa

aacggtccgt	gccatgaggc	ctgagcctcc	ggtgcccttg	cctggcatgc	tctgccacac	39480
cgtggccgcg	tgagggacag	acagcgcggg	acagaatccc	acctggcagg	gaggtggcag	39540
gcttgccatg	tgccagcagg	caccggggga	ggagggctg	ggtatcgggg	gcggggaccc	39600
tcagggcgaa	gctcgatgtt	aggcgggctt	cttctggagg	cccgtgtctc	ctgggcaagc	39660
attatcatct	ccacgtttta	ttttattata	ttattattta	tgtatttatt	gaaacagagt	39720
cttgctctgt	cacccagggt	ggtgtgcagt	ggtgcaacct	ccaccttcca	ggttcaagtg	39780
attctcctac	ctcagcctcc	cgagtagctg	ggattacagg	cgcccaccac	cacacctggc	39840
taatttttgt	atttttagta	gagacagggt	ttctccatgt	tggccaggct	ggtctcgaac	39900
tcttggactc	aagtgatcca	cccacctcag	cctcccaaag	tgctgggatt	acaggcatga	39960
gccactgcat	ctggcctcgt	ctccacattt	tagacaaatc	aagacaaagt	gacagccagg	40020
ggcctcaggc	ttgcaaggca	gcagctcaaa	gtggaaaccc	ggactcctgg	cccctcaccc	40080
aggccgcaca	cccacagcca	ggcctccctc	ccagaagccg	ccaccaggcc	tgctccgggg	40140
ccccagcttc	ctgtgctccc	ggtccaggcg	gtggccattg	tctgccagcc	attaggaacc	40200
agctggggga	agtgccatgc	cccagcccct	gggcagccca	tgtgtccctc	ctacacccgc	40260
gggcagggcc	ctcgagtccc	aggtcccagt	ggccagccat	cggtcctctc	actaaccgca	40320
ggatggccac	tgaaggccag	aagggtgggg	gccttggggg	ctacccgaaa	atctctccca	40380
ccatggccca	ggcccatggg	cgttctgtgg	ctccagcctg	tggctcgggg	tgggcggttg	40440
gggggctggg	ttttctgacc	ccggtggtgg	tgaatgaaca	gcagagcccc	atctacgccc	40500
ccggcctgcc	ggctcgctgg	ccttcctaat	gagcgtgtgt	ttccagagcc	ctttgatc	40558